Blue Earth County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

17--Minneopa sandy loam, 0 to 3 percent slopes

Minneopa

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): terraces Wind erodibility group (WEG): 3

Slope gradient: 0 to 3 percent Wind erodibility index (WEI): 86

Parent material: coarse-loamy outwash over sandy outwash Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 15 in	sandy loam	moderately rapid	1.94 to 2.24 in	5.6 to 7.3
Bw 15 to 20 in	sandy loam	moderately rapid	0.36 to 0.56 in	6.1 to 7.3
2C 20 to 60 in	loamy sand	rapid	1.59 to 3.58 in	6.1 to 8.4

Alluvial land

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

17--Minneopa sandy loam, 0 to 3 percent slopes

Comfrey

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: poorly drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

18--Comfrey clay loam

Ponding: none

Comfrey, occasionally flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy alluvium

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

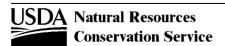
Land capability, nonirrigated: 2w

Flooding: occasional

Hydric soil: yes

Drainage class: poorly drained Potential for frost action: high

Available water Texture Permeability рН Representative soil profile: capacity -- qA 0 to 9 in clay loam 1.63 to 1.99 in 6.6 to 7.8 moderate A -- 9 to 34 in loam moderate 3.97 to 4.96 in 6.6 to 7.8 C -- 34 to 60 in moderate 3.90 to 4.94 in 6.6 to 8.4 loam



Hydrologic group: B/D

Blue Earth County, Minnesota

27--Dickinson fine sandy loam, 0 to 2 percent slopes

Dickinson

Extent: 90 percent of the unit

Landform(s): outwash deltas

Slope gradient: 0 to 2 percent

Parent material: coarse-loamy outwash over sandy outwash

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	pН
Ap 0 to 11 in	fine sandy loam	moderately rapid	1.32 to 1.65 in	5.6 to 7.3
Bw 11 to 35 in	fine sandy loam	moderately rapid	2.88 to 3.60 in	5.1 to 6.5
C 35 to 60 in	fine sand	rapid	1 98 to 2 48 in	5.1 to 6.5

Wadena

Extent: 5 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

27--Dickinson fine sandy loam, 0 to 2 percent slopes

Darfur

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Litchfield

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash deltas Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

27B--Dickinson fine sandy loam, 2 to 6 percent slopes

Dickinson

Extent: 90 percent of the unit

Landform(s): outwash deltas

Slope gradient: 2 to 6 percent

Parent material: coarse-loamy outwash over sandy outwash

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 11 in	fine sandy loam	moderately rapid	1.32 to 1.65 in	5.6 to 7.3
Bw 11 to 35 in	fine sandy loam	moderately rapid	2.88 to 3.60 in	5.1 to 6.5
C 35 to 60 in	fine sand	rapid	1.98 to 2.48 in	5.1 to 6.5

Wadena

Extent: 5 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Hydrologic group:

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



I Avadable weter I

Blue Earth County, Minnesota

27B--Dickinson fine sandy loam, 2 to 6 percent slopes

Darfur

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Litchfield

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash deltas Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

35--Blue Earth mucky silt loam

Blue Earth

Extent: 85 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): depressions on relict lakebeds Wind erodibility group (WEG): 4L Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 86

Parent material: fine-silty coprogenic material

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Lco1 0 to 19 in	mucky silt loam	moderate	3.40 to 4.54 in	7.4 to 8.4
Lco2 19 to 48 in	mucky silt loam	moderate	5.24 to 6.99 in	7.4 to 8.4
Lco3 48 to 60 in	clay loam	moderate	1.65 to 1.89 in	7.4 to 8.4

Canisteo

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): rims Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

35--Blue Earth mucky silt loam

Glencoe

Extent: 5 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

39--Wadena loam, 0 to 2 percent slopes

Wadena

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): terraces Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy outwash over sandy outwash

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2s

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	6.1 to 7.3
Bw 14 to 33 in	loam	moderate	2.65 to 3.59 in	5.6 to 7.3
2C 33 to 60 in	gravelly coarse sand	very rapid	0.54 to 1.07 in	6.6 to 8.4

Estherville

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

39B--Wadena loam, 2 to 6 percent slopes

Wadena

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): terraces Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy outwash over sandy outwash Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	6.1 to 7.3
Bw 14 to 33 in	loam	moderate	2.65 to 3.59 in	5.6 to 7.3
2C 33 to 60 in	gravelly coarse sand	very rapid	0.54 to 1.07 in	6.6 to 8.4

Estherville

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

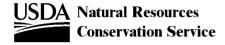
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

41--Estherville sandy loam, 0 to 2 percent slopes

Estherville

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): terraces Wind erodibility group (WEG): 3

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

Parent material: coarse-loamy outwash over sandy and Kw factor (surface layer) .20

gravelly outwash

**Restrictive feature(s): greater than 60 inches

**Land capability, nonirrigated: 3s*

Flooding: none

Hydric soil: no

Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	5.6 to 7.3
Bw 14 to 22 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2C 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4

Wadena

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

41--Estherville sandy loam, 0 to 2 percent slopes

Dickenson

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

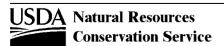
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

41B--Estherville sandy loam, 2 to 6 percent slopes

Estherville

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): terraces Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 86

Parent material: coarse-loamy outwash over sandy and Kw factor (surface layer) .20

gravelly outwash

**Restrictive feature(s): greater than 60 inches

**Land capability, nonirrigated: 6e

- " Land capability, normingated.

Flooding: none

Hydric soil: no

Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	5.6 to 7.3
Bw 14 to 22 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2C 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4

Wadena

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



Available water

Blue Earth County, Minnesota

41B--Estherville sandy loam, 2 to 6 percent slopes

Dickenson

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

41C--Estherville sandy loam, 6 to 18 percent slopes

Estherville

Extent: 90 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): terraces Wind erodibility group (WEG): 3

Slope gradient: 6 to 8 percent Wind erodibility index (WEI): 86

Parent material: coarse-loamy outwash over sandy and Kw factor (surface layer) .20

gravelly outwash

**Restrictive feature(s): greater than 60 inches

**Land capability, nonirrigated: 6e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	5.6 to 7.3
Bw 14 to 22 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2C 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4

Wadena

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Thydrologic group.

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



Available water

Blue Earth County, Minnesota

41C--Estherville sandy loam, 6 to 18 percent slopes

Dickenson

Extent: 5 percent of the unit

Landform(s): terraces

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

62--Barrington silt loam, 1 to 3 percent slopes

Barrington

Ponding: none

Extent: 90 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none

Hydric soil: no

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 15 in	silt loam	moderate	3.29 to 3.89 in	5.6 to 7.3
Bw 15 to 33 in	silt loam	moderate	3.26 to 3.62 in	5.6 to 7.8
C 33 to 60 in	stratified loamy very fine sand to silt loam	moderate	1.87 to 2.94 in	6.1 to 8.4

Hydrologic group: C

Madelia

Extent: 5 percent of the unit

Landform(s): flats

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

62--Barrington silt loam, 1 to 3 percent slopes

Grays

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

69--Fedji loamy fine sand, 1 to 3 percent slopes

Fedji

Ponding: none

Extent: 90 percent of the unit

Landform(s): outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 134

Parent material: sandy outwash over fine-loamy till

Kw factor (surface layer) .17

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3s

Flooding: none

Hydric soil: no

Drainage class: well drained Potential for frost action: low

Representative soil profile	Texture	Permeability	capacity	pН
A 0 to 10 in	loamy fine sand	rapid	0.98 to 1.28 in	5.6 to 6.5
Bw 10 to 24 in	loamy fine sand	rapid	1.28 to 1.56 in	6.1 to 7.3
2Bw 24 to 39 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
2C 39 to 60 in	loam	moderate	3.55 to 3.96 in	7.4 to 8.4

Hydrologic group: B

I Avadable weter I

Darfur

Extent: 5 percent of the unit

Landform(s): drainageways

Slope gradient:

Parent material:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

69--Fedji loamy fine sand, 1 to 3 percent slopes

Litchfield

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

69B--Fedji loamy fine sand, 3 to 8 percent slopes

Fedji

Extent: 90 percent of the unit

Landform(s): outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Slope gradient: 3 to 8 percent

Wind erodibility index (WEI): 134

Parent material: sandy outwash over fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3s

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: low

Representative soil	profile:	Texture	Permeability	capacity	рН
A 0 to	10 in	loamy fine sand	rapid	0.98 to 1.28 in	5.6 to 6.5
B 10 to	24 in	loamy fine sand	rapid	1.28 to 1.56 in	6.1 to 7.3
2Bw 24 to	39 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
2C 39 to	60 in	loam	moderate	3.55 to 3.96 in	7.4 to 8.4

Dickinson

Extent: 5 percent of the unit

Landform(s): deltas

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



I Avadable weter I

Blue Earth County, Minnesota

69B--Fedji loamy fine sand, 3 to 8 percent slopes

Litchfield

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): deltas Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Darfur

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

84--Brownton silty clay loam

Brownton

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): rims on depressions, flats on moraines Wind erodibility group (WEG): 4L Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits over fine-loamy till Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 22 in	silty clay loam	slow	3.97 to 4.85 in	7.4 to 8.4
Bg 22 to 38 in	silty clay	slow	2.05 to 2.52 in	7.4 to 8.4
Ca 38 to 60 in	clay loam	moderate	3 09 to 3 53 in	7 4 to 8 4

Marna

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

84--Brownton silty clay loam

Lura

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Guckeen

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

85--Calco silty clay loam

Calco, occasionally flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: fine-silty alluvium

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: occasional Hydric soil: yes

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 48 in	silty clay loam	moderate	10.09 to 11.05 in	7.4 to 8.4
Cg 48 to 60 in	silty clay loam	moderate	2.13 to 2.36 in	7.4 to 8.4

Comfrey

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

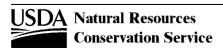
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

86--Canisteo silty clay loam

Canisteo

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): rims on depressions, flats on moraines

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w
Flooding: none

Hydric soil: yes

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	silty clay loam	moderate	2.55 to 3.12 in	7.4 to 8.4
Bkg 14 to 27 in	clay loam	moderate	1.89 to 2.39 in	7.4 to 8.4
Ca 27 to 60 in	loam	moderate	4 63 to 5 29 in	7.4 to 8.4

Glencoe

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

86--Canisteo silty clay loam

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Nicollet

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

94--Terril loam, 0 to 2 percent slopes

Terril

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy colluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative so	oil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0	to 21 in	loam	moderate	4.17 to 4.59 in	6.1 to 7.3
Bw 21	to 49 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3
C 49	to 60 in	loam	moderate	1.76 to 1.98 in	6.1 to 7.8

Hamel

Soil loss tolerance (T factor): Extent: 4 percent of the unit Landform(s): drainageways Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes Ponding: Hydrologic group: Potential for frost action: Drainage class:



Blue Earth County, Minnesota

94--Terril loam, 0 to 2 percent slopes

Webster

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Le Sueur

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

•



Blue Earth County, Minnesota

94--Terril loam, 0 to 2 percent slopes

Nicollet

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

94B--Terril loam, 2 to 6 percent slopes

Terril

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy colluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 21 in	loam	moderate	4.17 to 4.59 in	6.1 to 7.3
Bw 21 to 49 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3
C 49 to 60 in	loam	moderate	1.76 to 1.98 in	6.1 to 7.8

Hamel

Soil loss tolerance (T factor): Extent: 4 percent of the unit Landform(s): drainageways Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes Ponding: Hydrologic group: Potential for frost action: Drainage class:



Blue Earth County, Minnesota

94B--Terril loam, 2 to 6 percent slopes

Le Sueur

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Webster

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

94B--Terril loam, 2 to 6 percent slopes

Nicollet

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

94C--Terril loam, 6 to 15 percent slopes

Terril

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 15 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy colluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 21 in	loam	moderate	4.17 to 4.59 in	6.1 to 7.3
Bw 21 to 49 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3
C 49 to 60 in	loam	moderate	1.76 to 1.98 in	6.1 to 7.8

Hamel

Extent: 5 percent of the unit

Landform(s): drainageways

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Potential for frost action:

Blue Earth County, Minnesota

94C--Terril loam, 6 to 15 percent slopes

Le Sueur

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Webster

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

94C--Terril loam, 6 to 15 percent slopes

Nicollet

Extent: 1 percent of the unit Soil loss tolerance (T factor):

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

96--Collinwood silty clay loam, 1 to 3 percent slopes

Collinwood

Extent: 90 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: C/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 17 in	silty clay loam	moderately slow	2.37 to 2.88 in	5.6 to 7.3
Bw 17 to 45 in	silty clay	moderately slow	3.63 to 4.47 in	5.6 to 7.3
C 45 to 60 in	silt loam	moderately slow	1 65 to 2 24 in	7.4 to 8.4

Lura

Extent: 5 percent of the unitSoil loss tolerance (T factor):Landform(s): depressionsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

But in a self-active for the se

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

96--Collinwood silty clay loam, 1 to 3 percent slopes

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Waldorf

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

96B--Collinwood silty clay loam, 2 to 6 percent slopes

Collinwood

Extent: 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderately slow	2.37 to 2.88 in	5.6 to 7.3
Bw 17 to 45 in	silty clay	moderately slow	3.63 to 4.47 in	5.6 to 7.3
C 45 to 60 in	silt loam	moderately slow	1 65 to 2 24 in	7.4 to 8.4

Waldorf

Extent: 10 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Ponding:

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Blue Earth County, Minnesota

96C--Collinwood silty clay loam, 6 to 12 percent slopes

Collinwood

Extent: 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderately slow	2.37 to 2.88 in	5.6 to 7.3
Bw 17 to 45 in	silty clay	moderately slow	3.63 to 4.47 in	5.6 to 7.3
C 45 to 60 in	silt loam	moderately slow	1 65 to 2 24 in	7.4 to 8.4

Waldorf

Extent: 10 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Hydric soil: yes

Hydrologic group:

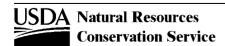
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Blue Earth County, Minnesota

96D--Collinwood silty clay loam, 12 to 18 percent slopes

Collinwood

Extent: 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 12 to 18 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 4e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderately slow	2.37 to 2.88 in	5.6 to 7.3
Bw 17 to 45 in	silty clay	moderately slow	3.63 to 4.47 in	5.6 to 7.3
C 45 to 60 in	silt loam	moderately slow	1 65 to 2 24 in	7.4 to 8.4

Truman

Extent: 5 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Blue Earth County, Minnesota

96D--Collinwood silty clay loam, 12 to 18 percent slopes

Bold

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

100--Copaston loam, 1 to 4 percent slopes

2R -- 19 to 23 in

Copaston

Extent: 90 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): terraces Wind erodibility group (WEG): 5

Slope gradient: 1 to 4 percent Wind erodibility index (WEI): 56

Parent material: fine-loamy till over limestone bedrock

Kw factor (surface layer) .28

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: D

unweathered bedrock

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A 0 to 10 in	loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bw 10 to 19 in	sandy loam	moderately rapid	1.09 to 1.27 in	5.6 to 7.8

moderate

Joliet

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): swales Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

101B--Truman silt loam, 2 to 6 percent slopes

Truman

Extent: 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none

Hydric soil: no
Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	silt loam	moderate	2.83 to 3.26 in	5.6 to 7.3
Bw 14 to 36 in	silt loam	moderate	3.90 to 4.55 in	5.6 to 7.8
C 36 to 60 in	silt loam	moderate	4.32 to 4.80 in	7.4 to 8.4

Kingston

Extent: 5 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

101B--Truman silt loam, 2 to 6 percent slopes

Madelia

Ponding:

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways

Slope gradient:

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: yes

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Hydrologic group:



Blue Earth County, Minnesota

101C--Truman silt loam, 6 to 12 percent slopes

Truman

Extent: 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	silt loam	moderate	2.83 to 3.26 in	5.6 to 7.3
Bw 14 to 36 in	silt loam	moderate	3.90 to 4.55 in	5.6 to 7.8
C 36 to 60 in	silt loam	moderate	4.32 to 4.80 in	7.4 to 8.4

Kingston

Extent: 5 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

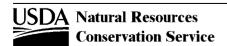
Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

101C--Truman silt loam, 6 to 12 percent slopes

Madelia

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainagewaysWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

102B--Clarion loam, 2 to 6 percent slopes

Clarion

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Nicollet

Extent: 4 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



Drainage class:

Blue Earth County, Minnesota

102B--Clarion loam, 2 to 6 percent slopes

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

102C--Clarion loam, 6 to 12 percent slopes

Clarion

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Nicollet

Extent: 4 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Hydrologic group:

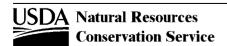
Representative soil profile:

Texture

Permeability

Available water capacity

pH



Drainage class:

Blue Earth County, Minnesota

102C--Clarion loam, 6 to 12 percent slopes

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

102D--Clarion loam, 12 to 18 percent slopes

Clarion

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 12 to 18 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 4e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Nicollet

Extent: 3 percent of the unit

Landform(s): flats

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

102D--Clarion loam, 12 to 18 percent slopes

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

102D--Clarion loam, 12 to 18 percent slopes

Terril

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): till plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

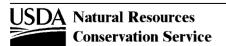
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

105B--Kamrar silty clay, 2 to 6 percent slopes

Kamrar

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits over fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: C

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 16 in	silty clay	moderately slow	2.42 to 3.07 in	5.6 to 7.3
Bw 16 to 31 in	silty clay	moderately slow	2.24 to 2.84 in	5.6 to 7.3
C 31 to 60 in	loam	moderate	4.02 to 4.60 in	7.4 to 8.4

Guckeen

Extent: 5 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

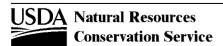
Land capability, nonirrigated:

Flooding:

Hydric soil: no

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

105B--Kamrar silty clay, 2 to 6 percent slopes

Marna

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

105C--Kamrar silty clay, 6 to 12 percent slopes

Extent: percent of the unit Soil loss tolerance (T factor):

Landform(s): Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): Land capability, nonirrigated:

Flooding: Hydric soil:
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

105D--Kamrar silty clay, 12 to 18 percent slopes

Kamrar

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 12 to 18 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits over fine-loamy till Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 4e

Flooding: none

Hydric soil: no

Hydrologic group: C

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 16 in	silty clay	moderately slow	2.42 to 3.07 in	5.6 to 7.3
Bw 16 to 31 in	silty clay	moderately slow	2.24 to 2.84 in	5.6 to 7.3
C 31 to 60 in	loam	moderate	4.02 to 4.60 in	7.4 to 8.4

Storden

Extent: 5 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

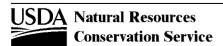
Representative soil profile:

Texture

Permeability

Available water capacity

PH



I Available water

Blue Earth County, Minnesota

105D--Kamrar silty clay, 12 to 18 percent slopes

Terril

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): morainesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

106B--Lester loam, 2 to 6 percent slopes

Lester

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative so	il profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	15 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
Bt 15 to	48 in	clay loam	moderate	4.96 to 6.28 in	5.6 to 7.3
C 48 to	60 in	loam	moderate	1.65 to 2.13 in	7.4 to 7.8

Le Sueur

Extent: 5 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Hydrologic group:

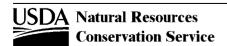
Representative soil profile:

Texture

Permeability

Available water capacity

pH



Drainage class:

Blue Earth County, Minnesota

106B--Lester loam, 2 to 6 percent slopes

Cordova

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainagewaysWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

106C--Lester loam, 6 to 12 percent slopes

Lester

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil p	orofile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 1	15 in loam		moderate	2.99 to 3.29 in	5.6 to 7.3
Bt 15 to 4	48 in clay loam		moderate	4.96 to 6.28 in	5.6 to 7.3
C 48 to 6	60 in loam		moderate	1.65 to 2.13 in	7.4 to 7.8

Hamel

Extent: 4 percent of the unit

Landform(s): drainageways

Slope gradient:

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

106C--Lester loam, 6 to 12 percent slopes

Le Sueur

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Cordova

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

106D--Lester loam, 12 to 18 percent slopes

Lester

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 12 to 18 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 4e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 15 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
Bt 15 to 48 in	clay loam	moderate	4.96 to 6.28 in	5.6 to 7.3
C 48 to 60 in	loam	moderate	1.65 to 2.13 in	7.4 to 7.8

Hamel

Extent: 4 percent of the unit

Landform(s): drainageways

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

106D--Lester loam, 12 to 18 percent slopes

Le Sueur

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Cordova

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

106E--Lester loam, 18 to 24 percent slopes

Lester

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 18 to 24 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 6e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	рН
A 0 to 15 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
Bt 15 to 48 in	clay loam	moderate	4.96 to 6.28 in	5.6 to 7.3
C 48 to 60 in	loam	moderate	1 65 to 2 13 in	7.4 to 7.8

Storden

Extent: 4 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

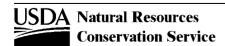
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

I Available water

Blue Earth County, Minnesota

106E--Lester loam, 18 to 24 percent slopes

Terril

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Hamel

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

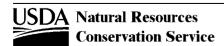
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

109--Cordova clay loam

Ponding: none

Cordova

Extent: 90 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 13 in	clay loam	moderately slow	2.34 to 2.86 in	6.1 to 7.3
Btg 13 to 32 in	clay loam	moderately slow	2.83 to 3.59 in	5.1 to 6.5
Cg 32 to 60 in	loam	moderate	3.91 to 4.47 in	7.4 to 8.4

Hydrologic group: C/D

A. . . : ! - b ! - . . . - t - . . .

Glencoe

Extent: 5 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

109--Cordova clay loam

Rolfe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Canisteo

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): rimsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

110--Marna silty clay loam

Marna

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: clayey lacustrine deposits over fine-loamy till Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 20 in	silty clay loam	slow	3.61 to 4.42 in	6.1 to 7.3
Bg 20 to 32 in	clay	slow	1.54 to 1.89 in	6.1 to 7.3
Ca 32 to 60 in	loam	moderate	3.91 to 5.31 in	6.6 to 8.4

Lura

Extent: 10 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Blue Earth County, Minnesota

113--Webster silty clay loam

Webster

Extent: 90 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 20 in	silty clay loam	moderate	3.81 to 4.22 in	6.6 to 7.3
Bg 20 to 30 in	clay loam	moderate	1.57 to 1.77 in	6.6 to 7.8
Cg 30 to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4

Canisteo

Extent: 5 percent of the unit

Landform(s): rims

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

113--Webster silty clay loam

Rolfe

Extent: 5 percent of the unit

Landform(s): depressions

Slope gradient:
Parent material:

Restrictive feature(s): greater than 60 inches

Flooding: Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI): Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes Hydrologic group:

Potential for frost action:

Representative soil profile: Texture

Permeability

Available water capacity

рΗ

Blue Earth County, Minnesota

114--Glencoe silty clay loam

Glencoe

Extent: 85 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines Wind erodibility group (WEG): 6
Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes

Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 26 in	silty clay loam	moderate	4.68 to 5.72 in	6.1 to 7.8
Bg 26 to 38 in	silty clay loam	moderate	2.13 to 2.60 in	6.1 to 7.8
Cg 38 to 60 in	silty clay loam	moderate	3.31 to 4.19 in	6.6 to 7.8

Canisteo

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): rims Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

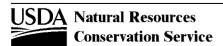
Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

114--Glencoe silty clay loam

Webster

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

128--Grogan silt loam, 1 to 3 percent slopes

Grogan

Extent: 90 percent of the unit

Landform(s): rises on outwash deltas

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 56

Parent material: stratified sandy and silty glaciolacustrine Kw factor (surface layer) .43

deposits

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 13 in	silt loam	moderately rapid	2.86 to 3.12 in	5.6 to 7.3
Bw	13 to 31 in	loam	moderately rapid	3.08 to 3.44 in	6.1 to 7.8
C	31 to 60 in	stratified loamy very fine sand to very fine sandy loam	moderately rapid	4.89 to 5.46 in	7.4 to 8.4

Litchfield

Extent: 4 percent of the unit

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Potential for frost action:

Blue Earth County, Minnesota

128--Grogan silt loam, 1 to 3 percent slopes

Madelia

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Nicollet

Extent: 3 percent of the unit Soil loss tolerance (T factor):

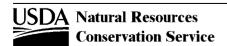
Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

128B--Grogan silt loam, 3 to 6 percent slopes

Grogan

Extent: 90 percent of the unit

Landform(s): hills on outwash deltas

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Parent material: stratified sandy and silty glaciolacustrine

Kw factor (surface layer) .43

deposits

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: high

Representative s	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0	to 13 in	silt loam	moderately rapid	2.86 to 3.12 in	5.6 to 7.3
Bw 13	to 31 in	loam	moderately rapid	3.08 to 3.44 in	6.1 to 7.8
C 31	to 60 in	stratified loamy very fine sand to very fine sandy loam	moderately rapid	4.89 to 5.46 in	7.4 to 8.4

Litchfield

Extent: 4 percent of the unit

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity pH



Drainage class:

Potential for frost action:

Blue Earth County, Minnesota

128B--Grogan silt loam, 3 to 6 percent slopes

Madelia

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Nicollet

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

130--Nicollet clay loam, 1 to 3 percent slopes

Nicollet

Extent: 90 percent of the unit

Landform(s): rises on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 1

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 21 in	clay loam	moderate	3.55 to 4.59 in	5.6 to 7.3
Bw 21 to 44 in	clay loam	moderate	3.48 to 4.41 in	5.6 to 7.8
C 44 to 60 in	loam	moderate	2 20 to 2 99 in	7 4 to 8 4

Clarion

Extent: 4 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Hydrologic group:

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

130--Nicollet clay loam, 1 to 3 percent slopes

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

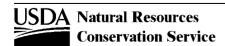
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

134--Okoboji silty clay loam

Okoboji

Extent: 85 percent of the unit

Landform(s): depressions on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Parent material: fine-silty alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile	Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	silty clay loam	moderately slow	1.65 to 1.81 in	6.1 to 7.8
A 8 to 40 in	silty clay loam	moderately slow	5.81 to 6.46 in	6.6 to 7.8
Ca 40 to 60 in	silt loam	moderately slow	3.54 to 3.94 in	6.6 to 8.4

Madelia

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class:

Potential for freet as

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

134--Okoboji silty clay loam

Lura

Extent: 5 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG)

Landform(s): depressionsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

136--Madelia silty clay loam

Madelia

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 19 in	silty clay loam	moderate	3.40 to 4.54 in	6.1 to 7.3
Bg 19 to 37 in	silty clay loam	moderate	2.90 to 3.98 in	6.6 to 7.8
Ca 37 to 60 in	silt loam	moderate	3 65 to 5 02 in	7.4 to 8.4

Kingston

Extent: 4 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

136--Madelia silty clay loam

Spicer

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Okoboji

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

138B2--Lerdal silty clay loam, 2 to 6 percent slopes, eroded

Lerdal, eroded

Soil loss tolerance (T factor): 5 Extent: 90 percent of the unit Landform(s): hills on moraines Wind erodibility group (WEG): 6 Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48 Parent material: clayey glaciolacustrine deposits over fine-Kw factor (surface layer) .37

loamy till

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: C/D

Drainage class: somewhat poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 12 in	silty clay loam	moderate	2.13 to 2.60 in	5.6 to 6.5
Bt 12 to 34 in	silty clay	slow	2.87 to 4.19 in	4.5 to 6.0
C 34 to 60 in	clay loam	moderately slow	3.64 to 4.94 in	6.6 to 7.8

Kilkenny

Extent: 4 percent of the unit Soil loss tolerance (T factor): Landform(s): moraines Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: no Ponding: Hydrologic group:

Potential for frost action: Drainage class:

Available water Texture Permeability рН Representative soil profile: capacity



Blue Earth County, Minnesota

138B2--Lerdal silty clay loam, 2 to 6 percent slopes, eroded

Minnetonka

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

138C2--Lerdal silty clay loam, 6 to 15 percent slopes, eroded

Lerdal, eroded

Extent: 90 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 15 percent

Wind erodibility index (WEI): 48

Parent material: clayey glaciolacustrine deposits over fine
Kw factor (surface layer) .37

loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: C/D

Drainage class: somewhat poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 12 in	silty clay loam	moderate	2.13 to 2.60 in	5.6 to 6.5
Bt 12 to 34 in	silty clay	slow	2.87 to 4.19 in	4.5 to 6.0
C 34 to 60 in	clay loam	moderately slow	3.64 to 4.94 in	6.6 to 7.8

Kilkenny

Extent: 4 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

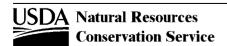
Flooding:

Land capability, nonirrigated:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

.....



Blue Earth County, Minnesota

138C2--Lerdal silty clay loam, 6 to 15 percent slopes, eroded

Minnetonka

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

140--Spicer silty clay loam

Spicer

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 16 in	silty clay loam	moderate	2.91 to 3.87 in	7.4 to 8.4
Bg 16 to 40 in	silt loam	moderate	3.84 to 5.28 in	7.4 to 8.4
Ca 40 to 60 in	silt loam	moderate	3 15 to 4 33 in	7.4 to 8.4

Okoboji

Extent: 5 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

140--Spicer silty clay loam

Madelia

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

160--Fieldon loam

Fieldon

Extent: 90 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Percent material: searce learny outwash ever sandy outwash

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 19 in	loam	moderate	3.40 to 3.78 in	7.4 to 8.4
Bg 19 to 37 in	fine sandy loam	moderate	2.72 to 3.08 in	7.4 to 8.4
2Cg 37 to 60 in	stratified fine sand to loamy fine sand	rapid	1.14 to 1.60 in	7.4 to 8.4

Dassel

Extent: 5 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

178--Granby fine sandy loam

Granby

Extent: 90 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: poorly drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	pН
Ap,A 0 to 18 in	fine sandy loam	moderately rapid	2.90 to 3.26 in	5.6 to 7.3
2Bg 18 to 42 in	loamy fine sand	rapid	1.20 to 2.88 in	5.6 to 7.8
2Ca 42 to 60 in	fine sand	rapid	0.89 to 1.59 in	6.6 to 8.4

Dassel

Soil loss tolerance (T factor): Extent: 3 percent of the unit Landform(s): depressions Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes Ponding: Hydrologic group: Potential for frost action: Drainage class:



Blue Earth County, Minnesota

178--Granby fine sandy loam

Fieldon

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

181--Litchfield loamy fine sand, 1 to 3 percent slopes

Litchfield

Extent: 90 percent of the unit

Landform(s): outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 134

Parent material: sandy outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil	profile:	Texture	Permeability	capacity	рН
Ap,A 0 to	16 in	loamy fine sand	rapid	1.61 to 1.94 in	5.1 to 7.3
Bw1 16 to	48 in	loamy fine sand	moderately rapid	2.23 to 5.10 in	5.1 to 7.3
Bw2 48 to	52 in	fine sandy loam	moderately rapid	0.59 to 0.67 in	6.6 to 7.8
C 52 to	60 in	fine sand	rapid	0.63 to 0.79 in	6.1 to 7.8

Dickinson

Extent: 3 percent of the unit

Landform(s): outwash plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

181--Litchfield loamy fine sand, 1 to 3 percent slopes

Estherville

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

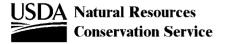
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

183--Dassel loam

Dassel

Extent: 85 percent of the unit

Soil loss tolerance (T factor): 3

Landform(s): depressions on outwash plains

Wind erodibility group (WEG): 5

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 56

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 24 in	loam	moderately rapid	4.32 to 5.76 in	5.6 to 7.3
Bg 24 to 38 in	stratified fine sand to loam	moderately rapid	1.70 to 2.41 in	5.6 to 7.3
2Ca 38 to 60 in	fine sand	rapid	1 73 to 2 17 in	6.1 to 7.8

Fieldon

Extent: 5 percent of the unit

Landform(s): flats

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

196--Joliet silty clay loam

Joliet

Extent: 90 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): terraces Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 86

bedrock

Restrictive feature(s): lithic bedrock at 10 to 20 inches Land capability, nonirrigated: 4w

Flooding: frequent

Hydric soil: yes

Ponding: none

Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderate	2.54 to 3.89 in	6.1 to 8.4
2R 17 to 60 in	unweathered bedrock	moderate		

Tilfer

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

197--Kingston silty clay loam, 1 to 3 percent slopes

Kingston

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): lake plains Wind erodibility group (WEG): 6 Slope gradient: 1 to 3 percent Wind erodibility index (WEI): 48 Parent material: fine-silty lacustrine deposits Kw factor (surface layer) .32 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 1

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profil	e: Texture	Permeability	Available water capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderate	3.05 to 4.06 in	5.6 to 7.3
Bw 17 to 31 in	silty clay loam	moderate	2.27 to 2.83 in	5.6 to 7.8
C 31 to 60 in	silt loam	moderate	4.60 to 5.75 in	7.4 to 8.4

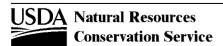
Madelia

Extent: 5 percent of the unit Soil loss tolerance (T factor): Landform(s): flats Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Potential for frost action: Drainage class:

Available water Texture Permeability рН Representative soil profile: capacity



Blue Earth County, Minnesota

197--Kingston silty clay loam, 1 to 3 percent slopes

Truman

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

211--Lura silty clay

Lura

Extent: 85 percent of the unit

Landform(s): depressions on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: clayey alluvium

Kw factor (surface layer) .24

Land capability, nonirrigated: 3w

Flooding: none

Hydric soil: yes

Ponding: frequent

Hydrologic group: C/D

Proinage class: year poorly drained

Potential for freet exting:

Drainage class: very poorly drained Potential for frost action: high

Representative soil pro	file:	Texture	Permeability	Available water capacity	рН
Ap 0 to 10 i	n silty clay		slow	1.38 to 1.67 in	6.1 to 7.8
A 10 to 58 i	n clay		slow	6.72 to 8.17 in	6.1 to 7.3
Cg 58 to 60 i	n silty clay		moderately slow	0.22 to 0.37 in	6.6 to 7.8

Marna

Extent: 5 percent of the unit Soil loss tolerance (T factor): Landform(s): flats Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes Ponding: Hydrologic group: Potential for frost action: Drainage class:



Blue Earth County, Minnesota

211--Lura silty clay

Barbert

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Minnetonka

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Slope gradient:

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

219--Rolfe silt loam

Rolfe

Extent: 85 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): depressions on till plains Wind erodibility group (WEG): 6

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

Parent material: clayey alluvium over fine-loamy till

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w
Flooding: none

Hydric soil: yes

Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.1 to 7.3
E 7 to 17 in	silt loam	moderate	2.17 to 2.36 in	5.1 to 7.3
Btg 17 to 43 in	clay	slow	2.86 to 3.38 in	6.1 to 7.3
Cg 43 to 60 in	silty clay loam	moderate	2.37 to 2.71 in	6.1 to 8.4

Cordova

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



Blue Earth County, Minnesota

219--Rolfe silt loam

Minnetonka

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

222B--Lasa fine sand, 2 to 8 percent slopes

Lasa

Extent: 90 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 1

Slope gradient: 2 to 8 percent

Wind erodibility index (WEI): 250

Parent material: sandy outwash

Kw factor (surface layer) .05

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 22 in	fine sand	moderately rapid	1.76 to 2.20 in	5.6 to 7.3
Bw 22 to 45 in	fine sand	moderately rapid	1.60 to 2.06 in	6.1 to 7.3
C 45 to 60 in	fine sand	rapid	0.90 to 1.20 in	6.1 to 7.3

Dassel

Extent: 10 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

229--Waldorf silty clay loam

Waldorf

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 20 in	silty clay loam	moderately slow	3.61 to 5.02 in	6.1 to 7.3
Bg 20 to 45 in	silty clay	moderately slow	3.22 to 3.97 in	6.6 to 7.8
Ca 45 to 60 in	silty clay loam	moderate	2 99 to 3 29 in	7.4 to 8.4

Collinwood

Extent: 4 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

229--Waldorf silty clay loam

Kingston

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Guckeen

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

230--Guckeen silty clay loam, 1 to 4 percent slopes

Guckeen

Extent: 90 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 1 to 4 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits over fine-loamy till Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2e

Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 22 in	silty clay loam	slow	3.53 to 4.19 in	5.6 to 7.3
Bw 22 to 31 in	silty clay	slow	1.18 to 1.45 in	5.6 to 7.3
C 31 to 60 in	loam	moderate	4 31 to 4 89 in	6.6 to 8.4

Kamrar

Extent: 5 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

230--Guckeen silty clay loam, 1 to 4 percent slopes

Marna

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

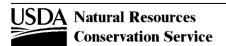
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

238B--Kilkenny clay loam, 2 to 6 percent slopes

Kilkenny

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): hills on moraines Wind erodibility group (WEG): 6 Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48

Parent material: clayey glaciolacustrine deposits over fine-Kw factor (surface layer) .28

loamy till

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: C

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A (0 to 7 in	clay loam	moderately slow	1.20 to 1.35 in	5.6 to 6.5
Bt	7 to 45 in	clay loam	moderately slow	5.67 to 7.18 in	4.5 to 6.5
C 4	5 to 60 in	loam	moderate	2.09 to 2.39 in	5.6 to 7.8

Lerdal

Extent: 5 percent of the unit Soil loss tolerance (T factor): Landform(s): moraines Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: no Ponding: Hydrologic group:

Potential for frost action: Drainage class: Available water **Texture** Permeability рΗ Representative soil profile: capacity



Blue Earth County, Minnesota

238B--Kilkenny clay loam, 2 to 6 percent slopes

Mazaska

Extent: 5 percent of the unit

Landform(s): drainageways

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

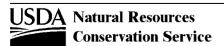
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

238C--Kilkenny clay loam, 6 to 12 percent slopes

Kilkenny

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): hills on moraines Wind erodibility group (WEG): 6 Slope gradient: 6 to 12 percent Wind erodibility index (WEI): 48

Parent material: clayey glaciolacustrine deposits over fine-Kw factor (surface layer) .32

loamy till

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: C

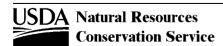
Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A (0 to 7 in	clay loam	moderately slow	1.20 to 1.35 in	5.6 to 6.5
Bt	7 to 45 in	clay loam	moderately slow	5.67 to 7.18 in	4.5 to 6.5
C 4	5 to 60 in	loam	moderate	2.09 to 2.39 in	5.6 to 7.8

Lerdal

Extent: 4 percent of the unit Soil loss tolerance (T factor): Landform(s): moraines Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: no Ponding: Hydrologic group:

Potential for frost action: Drainage class: Available water **Texture** Permeability рΗ



Representative soil profile:

capacity

Blue Earth County, Minnesota

238C--Kilkenny clay loam, 6 to 12 percent slopes

Derrynane

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Terril

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

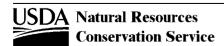
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

238D--Kilkenny clay loam, 12 to 18 percent slopes

Kilkenny

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): hills on moraines Wind erodibility group (WEG): 6 Slope gradient: 12 to 18 percent Wind erodibility index (WEI): 48

Parent material: clayey glaciolacustrine deposits over fine-Kw factor (surface layer) .32

loamy till

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 4e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: C

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A (0 to 7 in	clay loam	moderately slow	1.20 to 1.35 in	5.6 to 6.5
Bt	7 to 45 in	clay loam	moderately slow	5.67 to 7.18 in	4.5 to 6.5
C 4	5 to 60 in	loam	moderate	2.09 to 2.39 in	5.6 to 7.8

Lerdal

Extent: 4 percent of the unit Soil loss tolerance (T factor): Landform(s): moraines Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: no Ponding: Hydrologic group:

Potential for frost action: Drainage class:

Available water **Texture** Permeability рΗ Representative soil profile: capacity



Blue Earth County, Minnesota

238D--Kilkenny clay loam, 12 to 18 percent slopes

Derrynane

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Terril

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

239--Le Sueur clay loam, 1 to 3 percent slopes

Le Sueur

Extent: 90 percent of the unit

Landform(s): rises on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 1

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 13 in	clay loam	moderate	2.21 to 2.60 in	5.6 to 7.3
Bt 13 to 41 in	clay loam	moderate	4.19 to 5.31 in	5.1 to 7.3
C 41 to 60 in	loam	moderate	2 83 to 3 59 in	7.4 to 8.4

Cordova

Extent: 5 percent of the unit

Landform(s): drainageways

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

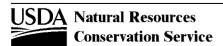
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

239--Le Sueur clay loam, 1 to 3 percent slopes

Lester

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): morainesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

248--Lomax loam, 1 to 3 percent slopes

Lomax

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 56

Parent material: coarse-loamy alluvium

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 19 in	loam	moderately rapid	3.40 to 4.16 in	5.1 to 6.5
Bw1 19 to 26 in	fine sandy loam	moderately rapid	0.85 to 1.35 in	5.1 to 6.5
Bw2 26 to 60 in	fine sandy loam	moderately rapid	1.69 to 3.72 in	5.1 to 7.3

Minneopa

Extent: 4 percent of the unit

Landform(s): terraces

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Available water

Blue Earth County, Minnesota

248--Lomax loam, 1 to 3 percent slopes

Dorchester

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Comfrey

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

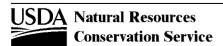
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

259B--Grays silt loam, 2 to 8 percent slopes

Grays

Extent: 90 percent of the unit

Landform(s): hills on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 2 to 8 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .43

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
E 8 to 14 in	silt loam	moderate	1.39 to 1.51 in	5.6 to 6.5
Bt 14 to 40 in	silty clay loam	moderate	4.68 to 5.20 in	5.6 to 6.5
C 40 to 60 in	silt loam	moderate	2 76 to 4 33 in	7.4 to 8.4

Madelia

Extent: 5 percent of the unit

Landform(s): drainageways

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

259B--Grays silt loam, 2 to 8 percent slopes

Barrington

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

275B--Ocheyedan loam, 2 to 8 percent slopes

Ocheyedan

Ponding: none

Extent: 90 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 2 to 8 percent

Wind erodibility index (WEI): 48

glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none

Hydric soil: no

Drainage class: well drained Potential for frost action: moderate

Hydrologic group: B

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 15 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
Bw 15 to 34 in	loam	moderate	3.02 to 3.40 in	6.1 to 7.8
C 34 to 60 in	silt loam	moderate	4.94 to 5.46 in	6.6 to 8.4

Clarion

Extent: 4 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

275B--Ocheyedan loam, 2 to 8 percent slopes

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Slope gradient:

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Nicollet

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

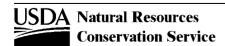
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

281--Darfur loam

Darfur

Extent: 90 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: coarse-loamy outwash over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Hydric soil: yes

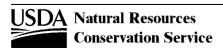
Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 19 in	loam	moderate	3.78 to 4.16 in	6.1 to 7.3
Bg 19 to 31 in	fine sandy loam	moderately rapid	1.83 to 2.07 in	6.6 to 7.8
Cg 31 to 60 in	stratified fine sand to loamy fine sand to fine sandy loam	moderately rapid	2.30 to 2.87 in	6.6 to 8.4

Dassel

Extent: 3 percent of the unit Soil loss tolerance (T factor): Landform(s): depressions Wind erodibility group (WEG): Wind erodibility index (WEI): Slope gradient: Kw factor (surface layer) Parent material: Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes Ponding: Hydrologic group: Potential for frost action: Drainage class:



Blue Earth County, Minnesota

286--Shorewood silty clay loam, 1 to 6 percent slopes

Shorewood

Extent: 90 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Parent material: clayey lacustrine deposits over fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: C/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderately slow	3.05 to 3.72 in	5.6 to 7.3
Bt 17 to 39 in	silty clay	moderately slow	2.87 to 3.53 in	5.1 to 7.3
C 39 to 60 in	loam	moderate	2.92 to 3.34 in	6.6 to 7.8

Minnetonka

Extent: 5 percent of the unit

Landform(s): flats

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Provine the electric soil: yes

Referrible for free tree.

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

286--Shorewood silty clay loam, 1 to 6 percent slopes

Guckeen

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

287--Minnetonka silty clay loam

Minnetonka

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Parent material: clayey lacustrine deposits over fine-loamy till

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 19 in	silty clay loam	moderately slow	3.40 to 4.16 in	5.6 to 7.3
Btg 19 to 40 in	silty clay	slow	2.76 to 4.04 in	5.6 to 7.3
Ca 40 to 60 in	loam	moderate	3 15 to 4 13 in	6.6 to 7.8

Shorewood

Extent: 4 percent of the unit

Landform(s): lake plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

287--Minnetonka silty clay loam

Lura

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind eradibility group (WEG):

Wind eradibility index (WED):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

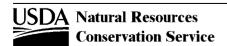
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

310--Beauford clay

Beauford

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .17

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 18 in	clay	slow	2.35 to 2.90 in	6.6 to 7.3
Bg 18 to 40 in	clay	slow	2.20 to 3.09 in	6.6 to 7.3
Ca 40 to 60 in	clav	slow	1.77 to 2.56 in	7.4 to 7.8

Lura

Extent: 4 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Drainage class:

Potential for frost action:

Blue Earth County, Minnesota

310--Beauford clay

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Guckeen

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

311--Shorewood silty clay, 1 to 6 percent slopes

Shorewood

Extent: 90 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Slope gradient: 1 to 6 percent

Wind erodibility index (WEI): 86

Parent material: clayey lacustrine deposits

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: C/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 17 in	silty clay	moderately slow	2.37 to 2.88 in	5.6 to 7.3
Bt 17 to 45 in	silty clay	moderately slow	3.63 to 4.47 in	5.1 to 7.3
2C 45 to 60 in	clay loam	moderate	2.09 to 2.39 in	6.6 to 7.8

Lura

Extent: 4 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

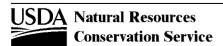
Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

311--Shorewood silty clay, 1 to 6 percent slopes

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Beauford

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Slope gradient:

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

316--Baroda silty clay loam

Baroda

Extent:90 percent of the unitSoil loss tolerance (T factor):5Landform(s):flats on lake plainsWind erodibility group (WEG):4Slope gradient:0 to 1 percentWind erodibility index (WEI):86

Parent material: clayey lacustrine deposits over fine-loamy till Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative s	oil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0	to 14 in	silty clay loam	moderate	2.55 to 3.12 in	5.1 to 7.3
Btg 14	to 46 in	clay	slow	4.15 to 5.10 in	4.5 to 6.0
2Cg 46	to 60 in	loam	moderate	1.93 to 2.20 in	7.9 to 8.4

Lura

Extent: 4 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

316--Baroda silty clay loam

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Shorewood

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Parent material: Kw factor (surface layer)
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

317--Oshawa silt loam

Oshawa, frequently flooded

Extent: 85 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy alluvium

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 6w

Flooding: frequent

Hydric soil: yes

Ponding: none

Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile	: Texture	Permeability	capacity	рН
A 0 to 21 in	silt loam	moderate	4.17 to 4.59 in	7.4 to 7.8
Cg 21 to 60 in	stratified loamy sand to sandy loam to loam to silt loam	moderately slow	6.63 to 7.41 in	7.4 to 7.8

Chaska

Extent: 10 percent of the unit

Landform(s): terraces

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Hydric soil: yes

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

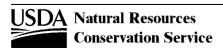
Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

317--Oshawa silt loam

Palms

Extent: 5 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Blue Earth County, Minnesota

319--Barbert silt loam

Barbert

Extent: 85 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): depressions on lake plains Wind erodibility group (WEG): 6

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 48

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil prof	ïle: Texture	Permeability	capacity	рН
Ap 0 to 4 in	silt loam	moderate	0.87 to 0.94 in	5.1 to 6.5
E 4 to 17 ir	n silt loam	moderate	2.86 to 3.12 in	5.1 to 6.5
Btg 17 to 43 ir	n clay	slow	2.60 to 3.64 in	5.1 to 7.3
Ca 43 to 60 in	silty clay loam	moderate	3.72 to 4.06 in	5.1 to 6.5

Lura

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



Blue Earth County, Minnesota

319--Barbert silt loam

Minnetonka

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

321--Tilfer silty clay loam

bedrock

Tilfer

Extent: 90 percent of the unit

Landform(s): flats on benches

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: fine-silty lacustrine deposits over limestone

Kw factor (surface layer) .32

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 22 in	silty clay loam	moderate	4.41 to 4.85 in	7.4 to 8.4
Bg 22 to 31 in	silty clay loam	moderate	1.54 to 1.72 in	7.4 to 8.4
Cg 31 to 33 in	channers	impermeable	0.00 to 0.00 in	
2R 33 to 35 in	bedrock	impermeable	0.00 to 0.00 in	

Joliet

Extent: 10 percent of the unit Soil loss tolerance (T factor): Landform(s): outwash plains Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: yes Ponding: Hydrologic group: Drainage class: Potential for frost action:



Blue Earth County, Minnesota

329--Chaska loam

Chaska, occasionally flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: loamy alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: occasional Hydric soil: no

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
A	0 to 8 in	loam	moderate	1.73 to 1.89 in	6.6 to 7.8
Cg1	8 to 38 in	stratified loamy fine sand to sandy loam to very fine sandy loam to loam	moderate	5.09 to 5.69 in	7.4 to 7.8
Cg2	38 to 60 in	stratified loamy fine sand to sandy loam	moderately rapid	1.54 to 3.53 in	7.4 to 8.4

Oshawa

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

329--Chaska loam

Dorchester

Extent: 5 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Blue Earth County, Minnesota

349--Calco silty clay loam, very wet

Calco, frequently flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Parent material: fine-silty alluvium

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 5w

Flooding: frequent

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
A 0 to 48 in	silty clay loam	moderate	10.09 to 11.05 in	7.4 to 8.4
Cq 48 to 60 in	silty clay loam	moderate	2.13 to 2.36 in	7.4 to 8.4

Minneopa

Extent: 10 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



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Blue Earth County, Minnesota

353--Comfrey clay loam, frequently flooded

Comfrey, frequently flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy alluvium

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 6w

Flooding: frequent

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
A 0 to 16 in	clay loam	moderate	2.91 to 3.55 in	6.6 to 7.8
Cg1 16 to 34 in	loam	moderate	2.83 to 3.54 in	6.6 to 7.8
Cg2 34 to 60 in	loam	moderate	3.90 to 4.94 in	6.6 to 8.4

Oshawa

Extent: 4 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

353--Comfrey clay loam, frequently flooded

Chaska

Extent: 3 percent of the unit

Landform(s): terraces

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Caron

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

354--Dorchester loam, occasionally flooded

Dorchester, occasionally flooded

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: loamy alluvium

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: occasional Hydric soil: no

Ponding: none Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 10 in	loam	moderate	1.97 to 2.17 in	7.4 to 8.4
C 10 to 46 in	stratified loamy fine sand to loam to silt loam	moderate	7.24 to 7.97 in	7.4 to 8.4
Ab 46 to 60 in	loam	moderate	3.03 to 3.31 in	6.6 to 8.4

Chaska

Extent: 5 percent of the unit

Landform(s): terraces

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

S

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

354--Dorchester loam, occasionally flooded

Comfrey

Extent: 5 percent of the unit

Soil loss tolerance (T factor):

Landform(s): flood plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)Restrictive feature(s): greater than 60 inchesLand capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: poorly drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

360B--Lasa loamy fine sand, rock substratum, 1 to 6 percent slopes

Lasa, rock substratum

Extent: 90 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 2

Slope gradient: 1 to 6 percent

Wind erodibility index (WEI): 134

Parent material: sandy outwash

Kw factor (surface layer) .20

Restrictive feature(s): paralithic bedrock at 48 to 60 inche

Land capability, nonirrigated: 4s

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 22 in	loamy fine sand	moderately rapid	2.20 to 2.65 in	5.6 to 7.3
Bw 22 to 48 in	loamy fine sand	moderately rapid	1.82 to 2.34 in	6.1 to 7.3
2R 48 to 60 in	unweathered bedrock	moderate		6.1 to 7.3

Joliet

Extent: 10 percent of the unit

Landform(s): outwash plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

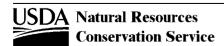
Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

360E--Lasa loamy fine sand, rock substratum, 12 to 35 percent slopes

Lasa, rock substratum

Extent: 90 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 2

Slope gradient: 12 to 35 percent

Wind erodibility index (WEI): 134

Parent material: sandy outwash

Restrictive feature(s): paralithic bedrock at 48 to 60 inche

Land capability, nonirrigated: 7s

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: A

Drainage class: well drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 22 in	loamy fine sand	moderately rapid	1.76 to 2.20 in	5.6 to 7.3
Bw 22 to 45 in	fine sand	moderately rapid	1.60 to 2.06 in	6.1 to 7.3
2R 45 to 60 in	unweathered bedrock	moderate		6.1 to 7.3

Terril

Extent: 10 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: no

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

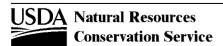
Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

363--Minneopa loamy fine sand, occasionally flooded, 0 to 3 percent slopes

Minneopa, occasionally flooded

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): terraces Wind erodibility group (WEG): 2

Slope gradient: 0 to 3 percent Wind erodibility index (WEI): 134

Flooding: occasional Hydric soil: no

Ponding: none Hydrologic group: A/D

Drainage class: moderately well drained Potential for frost action: moderate

Representativ	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 15 in	loamy fine sand	moderately rapid	1.94 to 2.24 in	5.6 to 7.3
Bw	15 to 20 in	sandy loam	moderately rapid	0.36 to 0.56 in	6.1 to 7.3
C	20 to 60 in	loamy sand	rapid	1.59 to 3.58 in	6.1 to 8.4

Comfrey

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

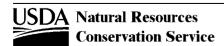
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

364--Minnetonka silty clay loam, silty substratum

Minnetonka, silty substratum

Extent: 90 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits and/or clayey

Kw factor (surface layer) .32

Parent material: fine-silty lacustrine deposits and/or clayey Kw factor (surface layer) lacustrine deposits

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profi	le: Texture	Permeability	Available water capacity	рН
Ap,A 0 to 19 in	silty clay loam	moderately slow	3.40 to 4.16 in	5.6 to 7.3
Bt 19 to 40 in	silty clay	slow	2.76 to 4.04 in	5.6 to 7.3
C 40 to 60 in	silt loam	moderate	3.15 to 4.13 in	6.6 to 7.8

Shorewood

Extent: 4 percent of the unit

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: no

Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

364--Minnetonka silty clay loam, silty substratum

Lura

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

414--Hamel clay loam, 1 to 4 percent slopes

Hamel

Extent: 90 percent of the unit

Landform(s): drainageways on moraines

Wind erodibility group (WEG): 6

Slope gradient: 1 to 4 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy colluvium Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 28 in	clay loam	moderately slow	5.03 to 6.15 in	5.6 to 7.3
Bt 28 to 34 in	clay loam	moderately slow	0.94 to 1.12 in	5.6 to 7.3
C 34 to 60 in	loam	moderate	3.64 to 4.68 in	7.4 to 7.8

Glencoe

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



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Blue Earth County, Minnesota

440--Copaston loam, very shallow, 1 to 4 percent slopes

Copaston, very shallow

Extent: 90 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): terraces Wind erodibility group (WEG): 5

Slope gradient: 1 to 4 percent Wind erodibility index (WEI): 56

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Land capability, nonirrigated: 4s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: D

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Α	0 to 8 in	loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bw	8 to 12 in	sandy loam	moderately rapid	0.47 to 0.55 in	5.6 to 7.8

2R -- 12 to 16 in unweathered bedrock moderate

Joliet

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): swales Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

448--Shorewood silty clay loam, silty substratum, 1 to 3 percent slopes

Shorewood, silty substratum

Extent: 90 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: clayey lacustrine deposits over fine-silty

Kw factor (surface layer) .32

lacustring denocite

lacustrine deposits

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2s

Flooding: none

Hydric soil: no

Hydrologic group: C/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil µ	orofile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	15 in	silty clay loam	moderately slow	2.69 to 3.14 in	5.6 to 7.3
Bt 15 to 3	33 in	silty clay	slow	2.35 to 3.44 in	5.6 to 7.3
C 33 to	60 in	silt loam	moderate	4.82 to 5.62 in	6.6 to 7.8

Minnetonka

Extent: 4 percent of the unitSoil loss tolerance (T factor):Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

ramago oraco.



Blue Earth County, Minnesota

448--Shorewood silty clay loam, silty substratum, 1 to 3 percent slopes

Lura

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Barbert

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

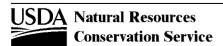
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

451--Dorchester loam, 1 to 3 percent slopes

Dorchester, rarely flooded

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): terraces Wind erodibility group (WEG): 4L

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 86

Parent material: loamy alluvium

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2w

Flooding: rare

Hydric soil: no

Ponding: none

Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile.	Texture	Permeability	Available water capacity	рН
Ap 0 to 10 in	loam	moderate	1.97 to 2.17 in	7.4 to 8.4
C 10 to 46 in	stratified loamy fine sand to loam to silt loam	moderate	7.24 to 7.97 in	7.4 to 8.4
Ab 46 to 60 in	loam	moderate	3.03 to 3.31 in	6.6 to 8.4

Comfrey

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

451--Dorchester loam, 1 to 3 percent slopes

Lomax

Extent: 5 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

524--Caron muck

Caron

Extent: 85 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): depressions on moraines Wind erodibility group (WEG): 2

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 134

Parent material: muck herbaceous organic material over Kw factor (surface layer) .02

coprogenic material

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Oa	0 to 8 in	muck	moderately rapid	2.36 to 3.15 in	
Oe	8 to 35 in	mucky peat	rapid	10.87 to 13.58 in	
C 3	35 to 60 in	coprogenous earth	moderately slow	4.96 to 5.46 in	

Palms

Extent: 15 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

ramage state.



Blue Earth County, Minnesota

525--Muskego muck

Muskego

Extent: 85 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): depressions on moraines Wind erodibility group (WEG): 2

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 134

Parent material: muck herbaceous organic material over Kw factor (surface layer) .02

coprogenic material

Loc -- 32 to 60 in

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

coprogenous earth

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:

Oa -- 0 to 32 in muck Texture Permeability Available water capacity pH

moderately rapid 11.16 to 14.35 in

slow

5.03 to 6.71 in

Caron

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

525--Muskego muck

Palms

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressionsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

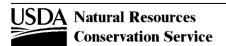
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

539--Palms muck

Palms

Extent: 85 percent of the unit

Landform(s): depressions on moraines

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 134

Parent material: muck herbaceous organic material over fine
Kw factor (surface layer) .02

loamy till

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Oa 0 to 50 in	muck	moderately rapid	17.50 to 24.00 in	
2A 50 to 60 in	silt loam	moderate	1.77 to 2.17 in	

Glencoe

Extent: 15 percent of the unit

Landform(s): depressions

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: yes

Hydrologic group:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



Drainage class:

Potential for frost action:

Blue Earth County, Minnesota

548--Palms muck, sandy substratum

Palms, sandy substratum

Extent: 85 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): depressions on outwash plains Wind erodibility group (WEG): 2

Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 134

sandy outwash

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Oa 0 to 30 in	muck	moderately rapid	10.47 to 13.46 in	
2A 30 to 45 in	silty clay loam	moderately rapid	1.94 to 2.99 in	
3A 45 to 60 in	fine sand	rapid	0.45 to 1.50 in	

Dassel

Extent: 15 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

851--Chaska-Urban land complex

Chaska, rarely flooded

Extent: 50 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: loamy alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: rare

Hydric soil: no

Ponding: none

Hydrologic group: C

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
A 0 to 8 in	loam	moderate	1.73 to 1.89 in	6.6 to 7.8
C1 8 to 38 in	stratified loamy fine sand to sandy loam to very fine sandy loam to loam	moderate	5.09 to 5.69 in	7.4 to 7.8
C2 38 to 60 in	stratified loamy fine sand to sandy loam	moderately rapid	1.54 to 3.53 in	7.4 to 8.4

Urban land, rarely flooded

Extent: 30 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: rareHydric soil: unrankedPonding: noneHydrologic group:Drainage class:Potential for frost action:

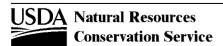
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

851--Chaska-Urban land complex

Oshawa

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Dorchester

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

852--Copaston-Urban land complex, 1 to 4 percent slopes

Copaston

Extent: 50 percent of the unit Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5 Landform(s): terraces

Slope gradient: 1 to 4 percent Wind erodibility index (WEI): 56

Parent material: fine-loamy till over limestone bedrock Kw factor (surface layer) .28

Restrictive feature(s): lithic bedrock at 12 to 20 inches Land capability, nonirrigated: 4s

Flooding: none Hydric soil: no Ponding: none Hydrologic group: D

Drainage class: well drained Potential for frost action: moderate

Available water Permeability рΗ **Texture** Representative soil profile: capacity Α --0 to 8 in loam moderate 1.57 to 1.73 in 5.6 to 7.3 Bw -- 8 to 12 in sandy loam moderately rapid 0.47 to 0.55 in 5.6 to 7.8

moderate

2R -- 12 to 16 in unweathered bedrock

Urban land

Extent: 40 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: 1 to 4 percent Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: none Hydric soil: unranked Hydrologic group: Ponding: none

Drainage class: Potential for frost action:

Available water Permeability рН Texture Representative soil profile: capacity



Blue Earth County, Minnesota

852--Copaston-Urban land complex, 1 to 4 percent slopes

Joliet

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): swalesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

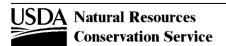
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

853--Copaston-Urban land bouldery complex, 1 to 4 percent slopes

unweathered bedrock

Copaston

Extent: 50 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): terraces Wind erodibility group (WEG): 5

Slope gradient: 1 to 4 percent Wind erodibility index (WEI): 56

Parent material: fine-loamy till over limestone bedrock

Kw factor (surface layer) .28

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Land capability, nonirrigated: 7s

Flooding: none Hydric soil: no

Ponding: none Hydrologic group: D

Drainage class: well drained Potential for frost action: moderate

Representative soil pro	file: Texture	Permeability	capacity	рН
A 0 to 10 i	n loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bw 10 to 19 i	n sandy loam	moderately rapid	1.09 to 1.27 in	5.6 to 7.8

Urban land

2R -- 19 to 23 in

Extent: 40 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: 1 to 4 percent Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: none Hydric soil: unranked Ponding: none Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



L Available water

moderate

Blue Earth County, Minnesota

853--Copaston-Urban land bouldery complex, 1 to 4 percent slopes

Joliet

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): swalesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

854--Cordova-Urban land complex, 0 to 3 percent slopes

Cordova

Extent: 50 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): drainageways on moraines Wind erodibility group (WEG): 6 Slope gradient: 0 to 3 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy till Kw factor (surface layer) .28 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 13 in	clay loam	moderately slow	2.34 to 2.86 in	6.1 to 7.3
Btg 13 to 32 in	clay loam	moderately slow	2.83 to 3.59 in	5.1 to 6.5
Ca 32 to 60 in	loam	moderate	3 91 to 4 47 in	7.4 to 8.4

Urban land

Extent: 30 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: 0 to 3 percent Wind erodibility index (WEI):

Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: none Hydric soil: unranked Ponding: none Hydrologic group: Potential for frost action:

Available water Texture Permeability рΗ Representative soil profile: capacity



Drainage class:

Blue Earth County, Minnesota

854--Cordova-Urban land complex, 0 to 3 percent slopes

Glencoe

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Rolfe

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

854--Cordova-Urban land complex, 0 to 3 percent slopes

Le Sueur

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

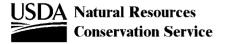
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

855--Dorchester-Urban land complex, 1 to 3 percent slopes

Dorchester, rarely flooded

Extent: 50 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 86

Parent material: loamy alluvium

Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: rare Hydric soil: no
Ponding: none Hydrologic group: C

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 10 in	loam	moderate	1.97 to 2.17 in	7.4 to 8.4
C 10 to 46 in	stratified loamy fine sand to loam to silt loam	moderate	7.24 to 7.97 in	7.4 to 8.4
Ab 46 to 60 in	loam	moderate	3.03 to 3.31 in	6.6 to 8.4

Urban land, rarely flooded

Extent: 30 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: unranked

Flooding: rareHydric soil: unrankedPonding: noneHydrologic group:Drainage class:Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

855--Dorchester-Urban land complex, 1 to 3 percent slopes

Comfrey

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)
Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: poorly drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Lomax

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

856B--Terril-Urban land complex, 2 to 6 percent slopes

Terril

Extent: 50 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6
Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy colluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 21 in	loam	moderate	4.17 to 4.59 in	6.1 to 7.3
Bw 21 to 49 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3
C 49 to 60 in	loam	moderate	1.76 to 1.98 in	6.1 to 7.8

Urban land

Extent: 30 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: 2 to 6 percent Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: none Hydric soil: unranked Ponding: none Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

856B--Terril-Urban land complex, 2 to 6 percent slopes

Hamel

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Le Sueur

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

856B--Terril-Urban land complex, 2 to 6 percent slopes

Lester

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Wind erodibility index (WEI):

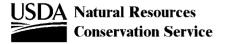
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

856C--Terril-Urban land complex, 6 to 15 percent slopes

Terril

Extent: 50 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): moraines Wind erodibility group (WEG): 6

Slope gradient: 6 to 15 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy colluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 21 in	loam	moderate	4.17 to 4.59 in	6.1 to 7.3
Bw 21 to 49 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3
C 49 to 60 in	loam	moderate	1.76 to 1.98 in	6.1 to 7.8

Urban land

Extent: 30 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: 6 to 15 percent Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: none

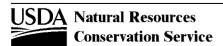
Hydric soil: unranked

Ponding: none

Hydrologic group:

Drainage class:

Potential for frost action:



Blue Earth County, Minnesota

856C--Terril-Urban land complex, 6 to 15 percent slopes

Hamel

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Le Sueur

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

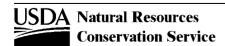
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

856C--Terril-Urban land complex, 6 to 15 percent slopes

Lester

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

909C--Bold-Truman silt loams, 6 to 12 percent slopes

Bold

Extent: 50 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 6 to 12 percent

Parent material: coarse-silty lacustrine deposits Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .49
Land capability, nonirrigated: 3e

Hydric soil: no Hydrologic group: B

Potential for frost action: high

Representative soil profile	e: Texture	Permeability	Available water capacity	рН
Ap 0 to 7 in	silt loam	moderate	1.49 to 1.70 in	7.4 to 8.4
C 7 to 60 in	stratified loamy very fine sand to silt loam	moderate	10.55 to 12.66 in	7.4 to 8.4

Truman

Extent: 40 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 6 to 12 percent

Parent material: fine-silty lacustrine deposits Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .37
Land capability, nonirrigated: 3e

Hydrologic group: B
Potential for frost action: high

Hydric soil: no

Representative soil profile	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	silt loam	moderate	2.83 to 3.26 in	5.6 to 7.3
Bw 14 to 36 in	silt loam	moderate	3.90 to 4.55 in	5.6 to 7.8
C 36 to 60 in	silt loam	moderate	4.32 to 4.80 in	7.4 to 8.4



Blue Earth County, Minnesota

909C--Bold-Truman silt loams, 6 to 12 percent slopes

Kingston

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Madelia

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

909D--Bold-Truman silt loams, 12 to 18 percent slopes

Bold

Extent: 60 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 12 to 18 percent

Parent material: coarse-silty lacustrine deposits Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .49
Land capability, nonirrigated: 6e

Hydric soil: no Hydrologic group: B

Potential for frost action: high

Representative soil	l profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to	7 in	silt loam	moderate	1.49 to 1.70 in	7.4 to 8.4
C 7 to	60 in	stratified loamy very fine sand to silt loam	moderate	10.55 to 12.66 in	7.4 to 8.4

Truman

Extent: 30 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 12 to 18 percent

Parent material: fine-silty lacustrine deposits Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .37
Land capability, nonirrigated: 4e

Hydrologic group: B

Hydric soil: no

Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	silt loam	moderate	2.83 to 3.26 in	5.6 to 7.3
Bw 14 to 36 in	silt loam	moderate	3.90 to 4.55 in	5.6 to 7.8
C 36 to 60 in	silt loam	moderate	4.32 to 4.80 in	7.4 to 8.4



Blue Earth County, Minnesota

909D--Bold-Truman silt loams, 12 to 18 percent slopes

Kingston

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Madelia

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

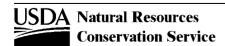
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

919--Canisteo-Fieldon loams

Canisteo

Extent: 65 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 14 in	silty clay loam	moderate	2.55 to 3.12 in	7.4 to 8.4
Bkg 14 to 27 in	clay loam	moderate	1.89 to 2.39 in	7.4 to 8.4
C 27 to 60 in	loam	moderate	4 63 to 5 29 in	7.4 to 8.4

Fieldon

Extent: 25 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 1 percent

Wind erodibility index (WEI): 86

Flooding: none

Hydric soil: yes

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 19 in	loam	moderate	3.40 to 3.78 in	7.4 to 8.4
Bg 19 to 37 in	fine sandy loam	moderate	2.72 to 3.08 in	7.4 to 8.4
C 37 to 60 in	stratified fine sand to loamy fine	rapid	1.14 to 1.60 in	7.4 to 8.4



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Available water

Blue Earth County, Minnesota

919--Canisteo-Fieldon loams

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Nicollet

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): risesWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

-

Representative soil profile: Texture Permeability Permeability pH



Available water

Blue Earth County, Minnesota

919--Canisteo-Fieldon loams

Litchfield

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash deltas

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

920B--Clarion-Estherville complex, 2 to 6 percent slopes

Clarion

Extent: 65 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): hills on moraines Wind erodibility group (WEG): 6 Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 48 Parent material: fine-loamy till Kw factor (surface layer) .28 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Estherville

Extent: 25 percent of the unit Soil loss tolerance (T factor): 3 Landform(s): hills on moraines Wind erodibility group (WEG): 3 Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 86 Parent material: coarse-loamy outwash over sandy and

gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat excessively drained

Kw factor (surface layer) .20

Land capability, nonirrigated: 3s

Hydric soil: no Hydrologic group: A

Potential for frost action: low

Available water

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	5.6 to 7.3
Bw 14 to 22 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2C 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4



Blue Earth County, Minnesota

920B--Clarion-Estherville complex, 2 to 6 percent slopes

Nicollet

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

920B--Clarion-Estherville complex, 2 to 6 percent slopes

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Blue Earth County, Minnesota

920C--Clarion-Estherville complex, 6 to 12 percent slopes

Clarion

Extent: 50 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 1	14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 3	34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Estherville

Extent: 30 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 86

Parent material: coarse-loamy outwash over sandy and

Kw factor (surface layer) .20

gravelly outwash

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 4s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	5.6 to 7.3
Bw 14 to 22 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2C 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4



Available water

Blue Earth County, Minnesota

920C--Clarion-Estherville complex, 6 to 12 percent slopes

Nicollet

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Webster

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

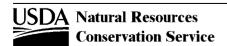
Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

920C--Clarion-Estherville complex, 6 to 12 percent slopes

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Terril

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): till plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

920D--Clarion-Estherville complex, 12 to 20 percent slopes

Clarion

Extent: 55 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): hills on moraines Wind erodibility group (WEG): 6 Slope gradient: 12 to 14 percent Wind erodibility index (WEI): 48 Parent material: fine-loamy till Kw factor (surface layer) .28 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 4e

Flooding: none Hydric soil: no Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Estherville

Extent: 25 percent of the unit Soil loss tolerance (T factor): 3 Landform(s): hills on moraines Wind erodibility group (WEG): 3 Slope gradient: 12 to 20 percent Wind erodibility index (WEI): 86 Parent material: coarse-loamy outwash over sandy and

gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat excessively drained

Kw factor (surface layer) .20

Land capability, nonirrigated: 6e Hydric soil: no

L Available water

Hydrologic group: A

Potential for frost action: low

Representative soil profile	e: Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	sandy loam	moderately rapid	1.84 to 2.55 in	5.6 to 7.3
Bw 14 to 22 in	sandy loam	moderately rapid	1.02 to 1.42 in	5.6 to 7.3
C 22 to 60 in	gravelly coarse sand	rapid	0.76 to 1.51 in	6.6 to 8.4



Blue Earth County, Minnesota

920D--Clarion-Estherville complex, 12 to 20 percent slopes

Nicollet

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

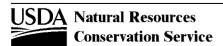
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

920D--Clarion-Estherville complex, 12 to 20 percent slopes

Webster

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Terril

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

921C--Clarion-Storden loams, 6 to 12 percent slopes

Clarion

Extent: 55 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 6 to 9 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Storden

Extent: 35 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 6 to 12 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative s	soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0	to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
C 8	to 60 in	loam	moderate	7.80 to 9.87 in	7.4 to 8.4



Blue Earth County, Minnesota

921C--Clarion-Storden loams, 6 to 12 percent slopes

Nicollet

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

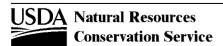
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

921C--Clarion-Storden loams, 6 to 12 percent slopes

Webster

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Terril

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): till plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

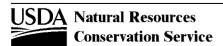
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

921D--Clarion-Storden loams, 12 to 18 percent slopes

Clarion

Extent: 55 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 12 to 14 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw 14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C 34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4

Storden

Extent: 35 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 12 to 18 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 4e

Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative s	oil profile:	Texture	Permeability	Available water capacity	рН
Ap 0	to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
C 8	to 60 in	loam	moderate	7.80 to 9.87 in	7.4 to 8.4



Blue Earth County, Minnesota

921D--Clarion-Storden loams, 12 to 18 percent slopes

Nicollet

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

921D--Clarion-Storden loams, 12 to 18 percent slopes

Webster

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Terril

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): till plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

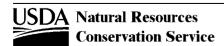
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

923--Copaston-Rock outcrop complex, 1 to 4 percent slopes

Copaston

Extent: 55 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): terraces Wind erodibility group (WEG): 5

Slope gradient: 1 to 4 percent Wind erodibility index (WEI): 56

Parent material: fine-loamy till over limestone bedrock

Kw factor (surface layer) .28

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Land capability, nonirrigated: 3s

Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: D

Drainage class: well drained Potential for frost action: moderate

Available water Permeability рΗ **Texture** Representative soil profile: capacity A -- 0 to 10 in 1.97 to 2.17 in 5.6 to 7.3 loam moderate Bw -- 10 to 19 in sandy loam moderately rapid 1.09 to 1.27 in 5.6 to 7.8 2R -- 19 to 23 in unweathered bedrock rapid

Rock outcrop

Extent: 35 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):

Slope gradient: 1 to 4 percent Wind erodibility index (WEI):

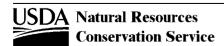
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: unranked Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

926--Darfur-Webster loams

Darfur

Extent: 65 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: coarse-loamy outwash over sandy outwash

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none

Hydric soil: yes

Ponding: none

Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 19 in	loam	moderate	3.78 to 4.16 in	6.1 to 7.3
Bg 19 to 31 in	fine sandy loam	moderately rapid	1.83 to 2.07 in	6.6 to 7.8
C 31 to 60 in	stratified fine sand to loamy fine sand to fine sandy loam	moderately rapid	2.30 to 2.87 in	6.6 to 8.4

Webster

Extent: 25 percent of the unit

Landform(s): flats, outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Pastrictive feature(s): greater than 60 inches

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w
Flooding: none

Hydric soil: yes

Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 20 in	loam	moderate	3.81 to 4.22 in	6.6 to 7.3
Bg 20 to 30 in	clay loam	moderate	1.57 to 1.77 in	6.6 to 7.8
Cg 30 to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4



I Available water I

Blue Earth County, Minnesota

926--Darfur-Webster loams

Dassel

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Litchfield

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash deltas Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

926--Darfur-Webster loams

Glencoe

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

929--Fieldon-Canisteo loams

Fieldon

Extent: 65 percent of the unit

Landform(s): flats on outwash plains

Wind erodia

Slope gradient: 0 to 2 percent

Parent material: coarse-loamy outwash over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3 Wind erodibility group (WEG): 4L Wind erodibility index (WEI): 86 Kw factor (surface layer) .28 Land capability, nonirrigated: 2w

Available water

Hydric soil: yes Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 19 in	loam	moderate	3.40 to 3.78 in	7.4 to 8.4
Bg 19 to 37 in	fine sandy loam	moderate	2.72 to 3.08 in	7.4 to 8.4
Cg 37 to 60 in	stratified fine sand to loamy fine sand	rapid	1.14 to 1.60 in	7.4 to 8.4

Canisteo

Extent: 25 percent of the unit

Landform(s): flats on outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 14 in	loam	moderate	2.55 to 3.12 in	7.4 to 8.4
Bkg 14 to 27 in	clay loam	moderate	1.89 to 2.39 in	7.4 to 8.4
Cg 27 to 60 in	loam	moderate	4.63 to 5.29 in	7.4 to 8.4



Blue Earth County, Minnesota

929--Fieldon-Canisteo loams

Dassel

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Litchfield

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash deltas Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

929--Fieldon-Canisteo loams

Glencoe

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

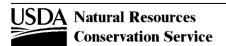
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

932--Glencoe-Dassel loams

Glencoe

Extent: 65 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines Wind erodibility group (WEG): 6
Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

Parent material: fine-loamy alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 26 in	loam	moderate	4.68 to 5.72 in	6.1 to 7.8
Bg 26 to 38 in	silty clay loam	moderate	2.13 to 2.60 in	6.1 to 7.8
Ca 38 to 60 in	silty clay loam	moderate	3 31 to 4 19 in	6.6 to 7.8

Dassel

Extent: 25 percent of the unit Soil loss tolerance (T factor): 3

Landform(s): depressions on moraines Wind erodibility group (WEG): 5

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 56

Parent material: coarse-loamy outwash over sandy outwash

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 24 in	loam	moderately rapid	4.32 to 5.76 in	5.6 to 7.3
Bg 24 to 38 in	stratified fine sand to loam	moderately rapid	1.70 to 2.41 in	5.6 to 7.3
Cg 38 to 60 in	fine sand	rapid	1.73 to 2.17 in	6.1 to 7.8



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Blue Earth County, Minnesota

932--Glencoe-Dassel loams

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flats

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

941--Kingston-Nicollet complex, 1 to 3 percent slopes

Kingston

Extent: 55 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .32

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 17 in	silty clay loam	moderate	3.05 to 4.06 in	5.6 to 7.3
Bw 17 to 31 in	silty clay loam	moderate	2.27 to 2.83 in	5.6 to 7.8
C 31 to 60 in	silt loam	moderate	4.60 to 5.75 in	7.4 to 8.4

Nicollet

Extent: 35 percent of the unit

Landform(s): rises on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 1

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative s	oil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0	to 21 in	clay loam	moderate	3.55 to 4.59 in	5.6 to 7.3
Bw 21	to 44 in	clay loam	moderate	3.48 to 4.41 in	5.6 to 7.8
C 44	to 60 in	loam	moderate	2.20 to 2.99 in	7.4 to 8.4



Blue Earth County, Minnesota

941--Kingston-Nicollet complex, 1 to 3 percent slopes

Webster

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Madelia

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

946--Litchfield-Nicollet complex, 1 to 3 percent slopes

Litchfield

Extent: 55 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 134

Parent material: sandy outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3s

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: moderately well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 16 in	loamy fine sand	rapid	1.61 to 1.94 in	5.1 to 7.3
Bw 16 to 48 in	loamy fine sand	moderately rapid	2.23 to 5.10 in	5.1 to 7.3
C 48 to 52 in	fine sandy loam	moderately rapid	0.59 to 0.67 in	6.6 to 7.8
2C 52 to 60 in	fine sand	rapid	0.63 to 0.79 in	6.1 to 7.8

Nicollet

Extent: 35 percent of the unit

Landform(s): outwash deltas

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B/D

Drainage class: moderately well drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ар,А	0 to 21 in	clay loam	moderate	3.55 to 4.59 in	5.6 to 7.3
Bw 2	1 to 44 in	clay loam	moderate	3.48 to 4.41 in	5.6 to 7.8
C 4	4 to 60 in	loam	moderate	2.20 to 2.99 in	7.4 to 8.4



I Available water

Blue Earth County, Minnesota

946--Litchfield-Nicollet complex, 1 to 3 percent slopes

Granby

Extent: 4 percent of the unit

Landform(s): swales

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Webster

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

947--Madelia-Webster silty clay loams

Madelia

Extent: 55 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .32

Parent material: fine-silty lacustrine deposits

Kw factor (surface layer) .32

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil	profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to	19 in	silty clay loam	moderate	3.40 to 4.54 in	6.1 to 7.3
Bg 19 to	37 in	silty clay loam	moderate	2.90 to 3.98 in	6.6 to 7.8
C 37 to	60 in	silt loam	moderate	3.65 to 5.02 in	7.4 to 8.4

Webster

Extent: 35 percent of the unit

Landform(s): flats on lake plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative s	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0) to 20 in	silty clay loam	moderate	3.81 to 4.22 in	6.6 to 7.3
Bg 20) to 30 in	clay loam	moderate	1.57 to 1.77 in	6.6 to 7.8
C 30) to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4



Blue Earth County, Minnesota

947--Madelia-Webster silty clay loams

Kingston

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): lake plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Okoboji

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

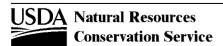
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

947--Madelia-Webster silty clay loams

Glencoe

Ponding:

Extent: 3 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG)

Landform(s): depressionsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: yes

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Hydrologic group:



Blue Earth County, Minnesota

960E--Storden-Clarion loams, 18 to 24 percent slopes

Storden

Extent: 50 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Slope gradient: 18 to 24 percent

Wind erodibility index (WEI): 86

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 6e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
C 8 to 60 in	loam	moderate	7 80 to 9 87 in	7.4 to 8.4

Clarion

Extent: 40 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 18 to 24 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 6e

Flooding: noneHydric soil: noPonding: noneHydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
A	0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bw	14 to 34 in	loam	moderate	3.35 to 3.74 in	5.6 to 7.8
C	34 to 60 in	loam	moderate	4.42 to 4.94 in	7.4 to 8.4



Blue Earth County, Minnesota

960E--Storden-Clarion loams, 18 to 24 percent slopes

Terril

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): till plains Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

960E--Storden-Clarion loams, 18 to 24 percent slopes

Webster

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): drainageways Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

961--Storden complex, very steep

Storden

Extent: 70 percent of the unit

Landform(s): hills on moraines

Slope gradient: 45 to 65 percent

Parent material: fine-loamy till

KV

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .32
Land capability, nonirrigated: 7e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
C 8 to 60 in	loam	moderate	7.80 to 9.87 in	7.4 to 8.4

Lester

Extent: 25 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 45 to 65 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 7e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A 0 to 15 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
Bt 15 to 48 in	clay loam	moderate	4.96 to 6.28 in	5.6 to 7.3
C 48 to 60 in	loam	moderate	1.65 to 2.13 in	7.4 to 7.8



Blue Earth County, Minnesota

961F--Storden complex, 24 to 45 percent slopes

Storden

Extent: 65 percent of the unit

Landform(s): hills on moraines

Slope gradient: 24 to 45 percent

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Kw factor (surface layer) .32
Land capability, nonirrigated: 7e

Hydric soil: no Hydrologic group: B

Potential for frost action: moderate

I Amellahla matau I

Representative soil profile	e: Texture	Permeability	capacity	рН
A 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
C 8 to 60 in	loam	moderate	7.80 to 9.87 in	7.4 to 8.4

Lester

Extent: 30 percent of the unit

Landform(s): hills on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 24 to 45 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 7e

Flooding: none

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: well drained Potential for frost action: moderate

Representative soil pro	ofile:	Texture	Permeability	Available water capacity	рН
A 0 to 15	in loam		moderate	2.99 to 3.29 in	5.6 to 7.3
Bt 15 to 48	in clay loam		moderate	4.96 to 6.28 in	5.6 to 7.3
C 48 to 60	in loam		moderate	1.65 to 2.13 in	7.4 to 7.8



Blue Earth County, Minnesota

961F--Storden complex, 24 to 45 percent slopes

Terril

Extent: 3 percent of the unit

Landform(s): till plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Estherville

Extent: 1 percent of the unit Soil loss tolerance (T factor):

Landform(s): terraces Wind erodibility group (WEG):
Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

961F--Storden complex, 24 to 45 percent slopes

Dickinson

Extent: 1 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity pH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

968--Webster-Darfur-Granby complex

Webster

Extent: 55 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative	e soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 20 in	silty clay loam	moderate	3.81 to 4.22 in	6.6 to 7.3
Bg 2	20 to 30 in	clay loam	moderate	1.57 to 1.77 in	6.6 to 7.8
C :	30 to 60 in	loam	moderate	4.19 to 5.69 in	7.4 to 8.4

Darfur

Extent: 20 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: coarse-loamy outwash over sandy outwash Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 2w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 19 in	loam	moderate	3.78 to 4.16 in	6.1 to 7.3
Bg 19 to 31 in	fine sandy loam	moderately rapid	1.83 to 2.07 in	6.6 to 7.8
C 31 to 60 in	stratified fine sand to loamy fine	moderately rapid	2.30 to 2.87 in	6.6 to 8.4



Blue Earth County, Minnesota

968--Webster-Darfur-Granby complex

Granby

Extent: 15 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Parent material: coarse-loamy outwash over sandy outwash

Kw factor (surface layer) .20

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 4w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: poorly drained Potential for frost action: moderate

Representative soil profile	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 18 in	fine sandy loam	moderately rapid	2.90 to 3.26 in	5.6 to 7.3
Bg 18 to 42 in	loamy fine sand	rapid	1.20 to 2.88 in	5.6 to 7.8
Ca 42 to 60 in	fine sand	rapid	0.89 to 1.59 in	6.6 to 8.4

Nicollet

Extent: 5 percent of the unit Soil loss tolerance (T factor): Landform(s): moraines Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI): Parent material: Kw factor (surface layer) Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: Flooding: Hydric soil: no Ponding: Hydrologic group: Potential for frost action: Drainage class:



Blue Earth County, Minnesota

968--Webster-Darfur-Granby complex

Litchfield

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): outwash deltasWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

978--Cordova-Rolfe complex

Cordova

Extent: 60 percent of the unit

Landform(s): flats on moraines

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy till

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: none

Hydric soil: yes

Ponding: none Hydrologic group: C/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 13 in	clay loam	moderately slow	2.34 to 2.86 in	6.1 to 7.3
Bg 13 to 32 in	clay loam	moderately slow	2.83 to 3.59 in	5.1 to 6.5
Cg 32 to 60 in	loam	moderate	3.91 to 4.47 in	7.4 to 8.4

Rolfe

Extent: 30 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): depressions on moraines Wind erodibility group (WEG): 6

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

Parent material: clayey alluvium over fine-loamy till Kw factor (surface layer) .37

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.1 to 7.3
E 7 to 17 in	silt loam	moderate	2.17 to 2.36 in	5.1 to 7.3
Btg 17 to 43 in	clay	slow	2.86 to 3.38 in	6.1 to 7.3
Ca 43 to 60 in	silty clay loam	moderate	2.37 to 2.71 in	6.1 to 8.4



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Available water

Blue Earth County, Minnesota

978--Cordova-Rolfe complex

Le Sueur

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): moraines Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: no Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Glencoe

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

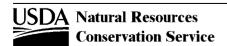
Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

992--Rock outcrop-Copaston complex, very steep

Rock outcrop

Extent: 60 percent of the unit Soil loss tolerance (T factor):

Landform(s): escarpments, terraces

Wind erodibility group (WEG):

Slope gradient: 45 to 60 percent

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: unranked
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

Copaston

Extent: 30 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): escarpments, terraces Wind erodibility group (WEG): 5
Slope gradient: 45 to 60 percent Wind erodibility index (WEI): 56

Restrictive feature(s): lithic bedrock at 12 to 20 inches

Land capability, nonirrigated: 7s

Flooding: none

Hydric soil: no

Ponding: none Hydrologic group: D

unweathered bedrock

Drainage class: well drained Potential for frost action: moderate

Representative soil profile:TexturePermeabilityAvailable water capacitypHA -- 0 to 8 inloammoderate1.57 to 1.73 in5.6 to 7.3Bw -- 8 to 12 insandy loammoderately rapid0.47 to 0.55 in5.6 to 7.8

moderate



2R -- 12 to 16 in

This report shows only the major soils in each map unit

Blue Earth County, Minnesota

992--Rock outcrop-Copaston complex, very steep

Terril

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): till plainsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

996--Beauford-Barbert complex

Beauford

Extent: 60 percent of the unit

Landform(s): flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: clayey lacustrine deposits
Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Kw factor (surface layer) .17
Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 18 in	clay	slow	2.35 to 2.90 in	6.6 to 7.3
Bg 18 to 40 in	clay	slow	2.20 to 3.09 in	6.6 to 7.3
Ca 40 to 60 in	clav	slow	1.77 to 2.56 in	7.4 to 7.8

Barbert

Extent: 30 percent of the unit

Landform(s): depressions on lake plains

Slope gradient: 0 to 1 percent

Parent material: clayey lacustrine deposits
Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 3 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48

Kw factor (surface layer) .37 Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap 0 to 4 in	silt loam	moderate	0.87 to 0.94 in	5.1 to 6.5
E 4 to 17 in	silt loam	moderate	2.86 to 3.12 in	5.1 to 6.5
Btg 17 to 43 in	clay	slow	2.60 to 3.64 in	5.1 to 7.3
Cg 43 to 60 in	silty clay loam	moderate	3.72 to 4.06 in	5.1 to 6.5



Blue Earth County, Minnesota

996--Beauford-Barbert complex

Lura

Extent: 5 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Waldorf

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): flatsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

996--Beauford-Barbert complex

Marna

Extent: 2 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressionsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

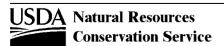
Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

997--Marna-Barbert complex

Marna

Extent: 60 percent of the unit

Landform(s): flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: clayey lacustrine deposits over fine-loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Kw factor (surface layer) .32 Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Available water

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 20 in	silty clay loam	slow	3.61 to 4.42 in	6.1 to 7.3
Bg 20 to 32 in	clay	slow	1.54 to 1.89 in	6.1 to 7.3
Ca 32 to 60 in	loam	moderate	3.91 to 5.31 in	6.6 to 8.4

Barbert

Extent: 30 percent of the unit

Soil loss tolerance (T factor): 3

Landform(s): depressions on lake plains

Wind erodibility group (WEG): 6

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 48

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: C/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile	Texture	Permeability	capacity	рН
Ap 0 to 4 in	silt loam	moderate	0.87 to 0.94 in	5.1 to 6.5
E 4 to 17 in	silt loam	moderate	2.86 to 3.12 in	5.1 to 6.5
Btg 17 to 43 in	clay	slow	2.60 to 3.64 in	5.1 to 7.3
Ca 43 to 60 in	silty clay loam	moderate	3.72 to 4.06 in	5.1 to 6.5



Blue Earth County, Minnesota

997--Marna-Barbert complex

Lura

Extent: 10 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes

Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

998--Minnetonka-Barbert complex

Minnetonka

Extent: 60 percent of the unit

Landform(s): flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: clayey lacustrine deposits over fine-loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 6 Wind erodibility index (WEI): 48 Kw factor (surface layer) .32 Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

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Representative soil profile:	Texture	Permeability	capacity	рН
Ap,A 0 to 19 in	silty clay loam	moderately slow	3.40 to 4.16 in	5.6 to 7.3
Btg 19 to 40 in	silty clay	slow	2.76 to 4.04 in	5.6 to 7.3
Cg 40 to 60 in	loam	moderate	3.15 to 4.13 in	6.6 to 7.8

Barbert

Extent: 30 percent of the unit

Landform(s): depressions on lake plains

Slope gradient: 0 to 1 percent

Parent material: clayey lacustrine deposits
Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Available water

Representative soil profile:	Texture	Permeability	capacity	рН
Ap 0 to 4 in	silt loam	moderate	0.87 to 0.94 in	5.1 to 6.5
E 4 to 17 in	silt loam	moderate	2.86 to 3.12 in	5.1 to 6.5
Btg 17 to 43 in	clay	slow	2.60 to 3.64 in	5.1 to 7.3
Ca 43 to 60 in	silty clay loam	moderate	3.72 to 4.06 in	5.1 to 6.5



Blue Earth County, Minnesota

998--Minnetonka-Barbert complex

Marna

Extent: 4 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Lura

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressions Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

998--Minnetonka-Barbert complex

Shorewood

Extent: 3 percent of the unit Soil loss tolerance (T factor):

Landform(s): rises

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: no
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

1001--Alluvial land, occasionally flooded

Alluvial land, occasionally flooded

Ponding: none

Extent: 90 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Slope gradient: 0 to 2 percent

Wind erodibility index (WEI): 48

Parent material: fine-loamy alluvium

Kw factor (surface layer) .28

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2w

Flooding: occasional Hydric soil: yes

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 25 in	silty clay loam	moderate	5.04 to 5.54 in	6.1 to 7.3
AC,Cg1 25 to 54 in	loam	moderate	5.75 to 6.32 in	6.1 to 7.3
Ca2 54 to 60 in	sandy loam	moderately rapid	0.77 to 1.00 in	6.1 to 7.8

Hydrologic group: B/D

Comfrey

Extent: 10 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Flooding:

Land capability, nonirrigated:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

1002--Alluvial land, frequently flooded

Alluvial land, frequently flooded

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): flood plains Wind erodibility group (WEG): 6 Slope gradient: 0 to 2 percent Wind erodibility index (WEI): 48 Parent material: fine-loamy alluvium Kw factor (surface layer) .28 Land capability, nonirrigated: 5w Restrictive feature(s): greater than 60 inches

Flooding: frequent Hydric soil: yes Ponding: none Hydrologic group: B/D

Drainage class: poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	рН
A1 0 to 12 in	silty clay loam	moderate	2.36 to 2.60 in	6.1 to 7.3
A2 12 to 30 in	loam	moderate	3.62 to 3.98 in	6.1 to 7.3
A3 30 to 55 in	stratified fine sandy loam to loam	moderate	5.04 to 5.54 in	6.1 to 7.3
AB.Ba 55 to 80 in	fine sandy loam	moderately rapid	3.22 to 4.22 in	6.1 to 7.8

Comfrey

Extent: 10 percent of the unit Soil loss tolerance (T factor): Landform(s): flood plains Wind erodibility group (WEG):

Wind erodibility index (WEI): Slope gradient: Kw factor (surface layer) Parent material:

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes Ponding: Hydrologic group: Drainage class: Potential for frost action:

Available water **Texture** Permeability Representative soil profile: рН capacity



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Blue Earth County, Minnesota

1004--Alluvial land, gently sloping

Alluvial land, rarely flooded

Extent: 90 percent of the unit

Landform(s): rises on flood plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Slope gradient: 2 to 6 percent

Wind erodibility index (WEI): 86

Parent material: coarse-loamy alluvium

Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: rare

Hydric soil: no

Ponding: none

Hydrologic group: B

Drainage class: moderately well drained Potential for frost action: moderate

Representativ	e soil profile:	Texture	Permeability	capacity	рН
Α	0 to 24 in	fine sandy loam	moderately rapid	3.84 to 4.32 in	6.1 to 7.3
AB	24 to 52 in	fine sandy loam	moderately rapid	4.47 to 5.03 in	6.1 to 7.3
Bw1	52 to 57 in	fine sandy loam	moderately rapid	0.56 to 0.67 in	5.6 to 7.3
Bw2,C	57 to 80 in	stratified fine sand to loamy fine sand to fine sandy loam	moderately rapid	2.74 to 4.34 in	5.6 to 7.8

Comfrey

Extent: 10 percent of the unit

Landform(s): flood plains

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Flooding:

Hydric soil: yes

Ponding: Hydrologic group:
Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



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Blue Earth County, Minnesota

1007--Alluvial-Urban land complex

Alluvial, rarely flooded

Extent: 50 percent of the unit

Landform(s): flood plains

Wind erodibility group (WEG):

Slope gradient: 0 to 2 percent Wind erodibility index (WEI):

Parent material: coarse-loamy alluvium Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Hydric soil: unranked

Ponding: none Hydrologic group:

Drainage class: somewhat poorly drained Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Urban land, rarely flooded

Extent: 30 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: rare

Hydric soil: unranked

Ponding: none

Hydrologic group:

Drainage class:

Potential for frost action:



Blue Earth County, Minnesota

1007--Alluvial-Urban land complex

Comfrey

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Oshawa

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): flood plains Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

1032--Lake beaches

Beaches, lake

Extent: 100 percent of the unit

Landform(s): beaches on moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG): 2

Slope gradient: 1 to 3 percent

Wind erodibility index (WEI): 134

Parent material: beach sand over loamy till

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: none Hydrologic group:

Drainage class: poorly drained Potential for frost action: high

Representative soil	profile:	Texture	Permeability	Available water capacity	рН
A 0 to	6 in	loamy fine sand	rapid	0.59 to 0.71 in	6.1 to 7.8
Bg 6 to	34 in	sand	rapid	1.40 to 3.35 in	6.1 to 7.8
2Cq 34 to	80 in	loam	moderate	6.91 to 8.75 in	7.4 to 8.4

1039--Urban land, 0 to 2 percent slopes

Urban land

Extent: 100 percent of the unit

Landform(s): moraines

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: 0 to 2 percent Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: noneHydric soil: unrankedPonding: noneHydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

1053--Marsh

Marsh

Extent: 90 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): depressions on moraines Wind erodibility group (WEG): 8

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 0

Parent material: muck herbaceous organic material over Kw factor (surface layer) .02 coprogenic material

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 8w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:

Oa1 -- 0 to 35 in muck

Texture

Permeability

Available water capacity

pH

moderately rapid 12.26 to 15.77 in

Oa2 -- 35 to 60 in coprogenous earth moderate 4.46 to 5.95 in

Canisteo

Extent: 10 percent of the unit Soil loss tolerance (T factor):

Landform(s): rims

Wind erodibility group (WEG):

Slope gradient:

Wind erodibility index (WEI):

Farent material:

Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

1800--Caron mucky peat

Caron

Extent: 85 percent of the unit Soil loss tolerance (T factor): 2

Landform(s): depressions on terraces Wind erodibility group (WEG): 8
Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 0

Parent material: muck herbaceous organic material over Kw factor (surface layer) .02

coprogenic material

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 8w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: A/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:

Texture

Permeability

Available water capacity

pH

Oe -- 0 to 60 in mucky peat rapid 23.94 to 29.92 in

Tilfer

Extent: 15 percent of the unit Soil loss tolerance (T factor):

Landform(s): depressionsWind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:
Drainage class: Potential for frost action:



Blue Earth County, Minnesota

1801B--Grogan loamy fine sand, 2 to 6 percent slopes

Grogan

Extent: 90 percent of the unit Soil loss tolerance (T factor): 5

Landform(s): deltas Wind erodibility group (WEG): 2

Slope gradient: 2 to 6 percent Wind erodibility index (WEI): 134

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 2e

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: A

Drainage class: well drained Potential for frost action: high

Representative	soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A	0 to 13 in	loamy fine sand	moderately rapid	1.95 to 2.47 in	5.6 to 7.3
C 1	3 to 60 in	stratified loamy very fine sand to silt loam	moderately rapid	7.96 to 8.90 in	7.4 to 8.4

Dassel

Extent: 10 percent of the unit

Landform(s): depressions

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Slope gradient: Wind erodibility index (WEI):
Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil: yes
Ponding: Hydrologic group:

Drainage class: Potential for frost action:



Blue Earth County, Minnesota

I-W--Intermittent water

Water, intermittent

Extent: 100 percent of the unit Soil loss tolerance (T factor):

Landform(s): Wind erodibility group (WEG): Slope gradient: Wind erodibility index (WEI):

Parent material: Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated:

Flooding: Hydric soil:

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

Representative soil profile:

Texture

Permeability

Available water capacity

PH

L13A--Klossner muck, depressional, 0 to 1 percent slopes

Klossner, drained

Extent: 65 to 85 percent of the unit Soil loss tolerance (T factor): 1

Landform(s): depressions on moraines Wind erodibility group (WEG): 2

Slope gradient: 0 to 1 percent Wind erodibility index (WEI): 134

Parent material: herbaceous organic material over loamy Kw factor (surface layer) .02

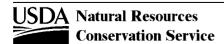
glaciofluvial deposits

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 3w

Flooding: none Hydric soil: yes
Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Op 0 to 10 in	muck	moderately rapid	3.44 to 4.72 in	
Oa 10 to 26 in	muck	moderately rapid	5.65 to 7.75 in	
2A1 26 to 36 in	mucky silty clay loam	moderate	2.17 to 2.56 in	
2A2 36 to 48 in	silty clay loam	moderate	2.20 to 2.69 in	
2Cg 48 to 80 in	loam	moderate	4.78 to 6.06 in	



This report shows only the major soils in each map unit

Blue Earth County, Minnesota

L84A--Glencoe clay loam, depressional, 0 to 1 percent slopes

Glencoe, depressional

Extent: 75 to 100 percent of the unitSoil loss tolerance (T factor): 5Landform(s): depressions on morainesWind erodibility group (WEG): 6Slope gradient: 0 to 1 percentWind erodibility index (WEI): 48Parent material: tillKw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated: 3w
Flooding: none

Hydric soil: yes

Ponding: frequent Hydrologic group: B/D

Drainage class: very poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	Available water capacity	рН
Ap,A 0 to 24 in	clay loam	moderate	4.32 to 5.28 in	6.1 to 7.8
ABg 24 to 35 in	clay loam	moderate	1.98 to 2.43 in	6.1 to 7.8
Bg 35 to 48 in	loam	moderate	1.95 to 2.47 in	6.6 to 7.8
Ca 48 to 60 in	loam	moderate	1.77 to 2.24 in	7.4 to 8.4



Blue Earth County, Minnesota

L85A--Nicollet clay loam, 1 to 3 percent slopes

Nicollet

Extent: 70 to 95 percent of the unit

Soil loss tolerance (T factor): 5

Landform(s): flats on moraines, rises on moraines

Wind erodibility group (WEG): 6

Slope gradient: 1 to 3 percent Wind erodibility index (WEI): 48

Parent material: till Kw factor (surface layer) .24

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated: 1

Flooding: none Hydric soil: no
Ponding: none Hydrologic group: B/D

Drainage class: somewhat poorly drained Potential for frost action: high

Representative soil profile:	Texture	Permeability	capacity	pН
Ap,A 0 to 17 in	clay loam	moderate	2.88 to 3.72 in	5.6 to 7.3
Bw,Bg 17 to 33 in	clay loam	moderate	2.42 to 3.07 in	5.6 to 7.3
Bg 33 to 36 in	clay loam	moderate	0.41 to 0.52 in	7.4 to 8.4
Ca 36 to 60 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4

W--Water

Water

Extent: 100 percent of the unit Soil loss tolerance (T factor):

Landform(s):Wind erodibility group (WEG):Slope gradient:Wind erodibility index (WEI):Parent material:Kw factor (surface layer)

Restrictive feature(s): greater than 60 inches Land capability, nonirrigated:

Flooding: Hydric soil:

Ponding: Hydrologic group:

Drainage class: Potential for frost action:

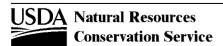
Representative soil profile:

Texture

Permeability

Available water capacity

PH



Blue Earth County, Minnesota

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.

